

## List of Compounding Materials

| Product             | Function                | Description   | Supplier         |
|---------------------|-------------------------|---|------------------|
| A-C 617             | Processing aid          | Low molecular weight polyethylene   | Honeywell        |
| Aflux 37            | Processing aid          | Blend of surface active substances with fatty acids                                     | Rhein Chemie     |
| Aflux 42            | Processing aid          | Water-free blend of fatty acids, fatty alcohols and fatty acid esters                   | Rhein Chemie     |
| Aflux S             | Processing aid          | Blend of surface active substances<br><br>No longer available.<br>Recommended: Aflux 37 | Rhein Chemie     |
| Agerite Resin D     | Antioxidant             | 2,2,4-trimethyl-1,2-dihydro-quinoline (TMQ)   | Vanderbilt       |
| AKTIFIT AM          | Filler                  | Neuburg Siliceous Earth, calcined, surface treated                                      | HOFFMANN MINERAL |
| AKTIFIT PF 111      | Filler                  | Neuburg Siliceous Earth, calcined, surface treated                                      | HOFFMANN MINERAL |
| AKTIFIT PF 115      | Filler                  | Neuburg Siliceous Earth, calcined, surface treated                                      | HOFFMANN MINERAL |
| AKTIFIT VM          | Filler                  | Neuburg Siliceous Earth, calcined, surface treated                                      | HOFFMANN MINERAL |
| AKTISIL AM          | Filler                  | Neuburg Siliceous Earth, surface treated  | HOFFMANN MINERAL |
| AKTISIL MAM         | Filler                  | Neuburg Siliceous Earth, surface treated  | HOFFMANN MINERAL |
| AKTISIL MM          | Filler                  | Neuburg Siliceous Earth, surface treated  | HOFFMANN MINERAL |
| AKTISIL PF 216      | Filler                  | Neuburg Siliceous Earth, surface treated  | HOFFMANN MINERAL |
| AKTISIL PF 777      | Filler                  | Neuburg Siliceous Earth, surface treated  | HOFFMANN MINERAL |
| AKTISIL Q           | Filler                  | Neuburg Siliceous Earth, surface treated  | HOFFMANN MINERAL |
| AKTISIL VM 56       | Filler                  | Neuburg Siliceous Earth, surface treated  | HOFFMANN MINERAL |
| Alcanpoudre DBU-70  | Activator               | DBU<br>1,8-Diazabicyclo[5.4.0]undec-7-ene   | Safic-Alcan      |
| Alcanplast PO 80    | Plasticizer             | Ether-ester-plasticizer   | Safic-Alcan      |
| Aluminium hydroxide | Flame retardant, filler | Al(OH) <sub>3</sub>   | several          |
| Anox PP 18          | Antioxidant             | Sterically hindered phenol  | Chemtura         |

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| Antilux 110        | Antiozonant             | Micro crystalline wax                                    | Rhein Chemie                  |
| Antilux 500 L      | Antiozonant             | Micro crystalline wax                                    | Rhein Chemie                  |
| Antimony oxide     | Flame retardant         | Sb <sub>2</sub> O <sub>3</sub>                           | several                       |
| Antioxidant HS     | Antioxidant             | 2,2,4-trimethyl-1,2-dihydro-quinoline (TMQ)              | several                       |
| Antioxidant MB     | Antioxidant             | Mercapto-benzimidazole (MBI)                             | several                       |
| Antioxidant PBN    | Antioxidant             | Phenyl-beta-naphtylamine                                 | several                       |
| AOX 2246           | Antioxidant             | 2,2-methylene-bis (4-methyl-6-tert.-butylphenol (BPH)    | several                       |
| APF N-683          | Filler                  | Carbon black   | several                       |
| Apyral 40 CD       | Flame retardant, filler | Aluminium hydroxide, ATH, Al(OH) <sub>3</sub>            | Nabaltec                      |
| Argiflex No. 2     | Filler                  | Hard clay, surface treated<br>No longer available.       | AGS Mineraux                  |
| Argirec KN 20      | Filler                  | Hard clay, surface treated                               | AGS Mineraux                  |
| Armeen 18D         | Processing aid          | n-Octadecylamine   | Nouryon                       |
| Atactic polybutene | Polymeric plasticizer   | Isobutylene  | several                       |
| Barite             | Filler                  | Natural barium sulfate                                   | several                       |
| Barium sulfate     | Filler                  | BaSO <sub>4</sub>  | several                       |
| Baypren 110        | Polymer                 | CR   | Arlanxeo                      |
| Baypren 210        | Polymer                 | CR   | Arlanxeo                      |
| Baypren 214        | Polymer                 | CR   | Arlanxeo                      |
| Baypren 230        | Polymer                 | CR   | Arlanxeo                      |
| Baypren 611        | Polymer                 | CR   | Arlanxeo                      |
| Benzoic acid       | Cure retarder           |  | several                       |
| Blanc Fixe         | Filler                  | Precipitated barium sulfate (BaSO <sub>4</sub> )         | Venator Materials Corporation |
| Blowing agent BSH  | Blowing agent           | Benzene sulfohydrazide                                   | several                       |
| Buna AP 147        | Polymer                 | EPDM<br>No longer available.<br>Recommended: Keltan 2470 |                               |
| Buna AP 258        | Polymer                 | EPDM<br>No longer available.<br>Recommended: Keltan 3973 |                               |
| Buna AP 341        | Polymer                 | EPDM<br>No longer available.<br>Recommended: Keltan 4450 |                               |

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| Buna AP 344        | Polymer     | EPDM, oil extended<br>No longer available.<br>Recommended: Keltan 4455                          |                     |
| Buna AP 447        | Polymer     | EPDM<br>No longer available.<br>Recommended: Keltan 5470 or<br>Keltan 5470Q                     |                     |
| Buna AP 451        | Polymer     | EPDM<br>No longer available.<br>Recommended: Keltan 6750  |                     |
| Buna AP 541        | Polymer     | EPDM<br>No longer available.<br>Recommended: Keltan 7450  |                     |
| Buna CB 10         | Polymer     | BR<br>No longer available.<br>Recommended: Buna CB 24   |                     |
| Buna CB 11         | Polymer     | BR<br>No longer available.<br>Recommended: Buna CB 24   |                     |
| Buna CB 24         | Polymer     | BR  | Arlanxeo            |
| Buna EP G 3569 LF  | Polymer     | EPDM, oil extended<br>No longer available.<br>Recommended: Keltan 4577<br>+ 25 phr paraffin oil |                     |
| Buna EP G 6850     | Polymer     | EPDM<br>No longer available.<br>Recommended: Keltan 6750  |                     |
| Buna SB 1502       | Polymer     | Cold polymerised emulsion styrene<br>butadiene rubber (E-SBR)                                   | Trinseo             |
| Butyl 268          | Polymer     | IIR   | ExxonMobil Chemical |
| Butyl Zimate       | Accelerator | Zinc-dibutyl-dithiocarbamate<br>(ZDBC)  | Vanderbilt          |
| Cab-O-Sil M-7D     | Filler      | Pyrogenic silica, 200 m <sup>2</sup> /g   | Cabot               |
| Calcined clay      | Filler      | Dehydrated clay   | several             |
| Calcium hydroxide  | Activator   |   | several             |
| Calcium oxide      | Desiccant   | CaO   | several             |
| Calcium oxide xx % | Desiccant   | CaO in mineral oil and wax  | several             |
| Caldic PIB V 190   | Plasticizer | Polyisobutene   | Caldic              |
| Caloxol            | Desiccant   | CaO in mineral oil  | Omya UK Chemicals   |
| Caloxol W3         | Desiccant   | 75 % CaO in mineral oil and wax   | Omya UK Chemicals   |

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| Carbon Black N-550          | Filler                       | Carbon black  | several                     |
| Carbon Black N-774          | Filler                       | Carbon black  | several                     |
| Carbon Black N-990          | Filler                       | Carbon black  | several                     |
| Carbowax PEG 4000           | Filler activator             | Polyethylene glycol   | Dow Chemical Company        |
| CBS                         | Accelerator                  | Cyclohexyl-benzothiazyl-sulfenamide   | several                     |
| Celogen OT                  | Blowing agent                | Oxy-bis (benzene-sulfohydrazide)  | Lion Copolymer              |
| Chimassorb 944              | Antioxidant                  | Sterically hindered amine   | BASF                        |
| China Clay                  | Filler                       | Soft clay   | Imerys Performance Minerals |
| Chlorinated paraffin 70 %   | Flame retardant, plasticizer | Chlorinated paraffin (70 % chlorine)  | several                     |
| Chlorinated paraffin liquid | Flame retardant, plasticizer |   | several                     |
| Corax N 330                 | Filler                       | Carbon black  | Orion Engineered Carbons    |
| Corax N 550                 | Filler                       | Carbon black  | Orion Engineered Carbons    |
| Corax N 550/30              | Filler                       | Carbon black  | Orion Engineered Carbons    |
| Corax N 650                 | Filler                       | Carbon black  | Orion Engineered Carbons    |
| Corax N 774                 | Filler                       | Carbon black  | Orion Engineered Carbons    |
| Cortis 100 M                | Plasticizer                  | Paraffin oil  | Total                       |
| Coupsil 6411                | Filler                       | Precipitated silica, silane treated   | Evonik Industries           |
| Coupsil 8415                | Filler                       | Precipitated silica, silane treated   | Evonik Industries           |
|                             |                              | No longer available.<br>Recommended: Coupsil based on Ultrasil VN3 treated with 15 % thiocyanato-silane |                             |
| Crodamide ER                | Processing aid               | Erucamide   | Croda                       |
| Crodamide SR                | Processing aid               | Stearyl amide   | Croda                       |
| Crystex                     | Curing agent                 | Insoluble sulfur  | Eastman                     |
| CSM                         | Polymer                      | Chlorsulfonated polyethylene  | several                     |
| CTP (PVI)                   | Cure retarder                | Cyclohexyl-thiophthalimide  | several                     |
| DBTU                        | Accelerator                  | Dibutyl-thiourea  | several                     |
| DCP 40 %                    | Curing agent                 | Dicumyl peroxide  | several                     |
| DDTS                        | Accelerator                  | Dimethyl-diphenyl-thiuram-disulfide   | several                     |
| Deovulc BG 187              | Accelerator                  | Synergistic blend of thiazol, dithiophosphate and alkaline accelerators                                 | DOG-Chemie                  |
| Deovulc EG 28               | Accelerator                  | Synergistic blend of effective accelerators, ETU-free, contains sulfur donor                            | DOG-Chemie                  |

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| DHBP 40 %                        | Curing agent               | 2,5-dimethyl-2,5-di (tert.-butyl-peroxy) hexane  | several                  |
| Diak No. 1                       | Curing agent               | Hexamethylenediamine carbamate   | DuPont                   |
| Diak No. 7                       | Co-agent for peroxide cure | Triallyl isocyanurate  | DuPont                   |
| Diethylene glycol                | Filler activator           |  | several                  |
| Dioctyl phthalate                | Plasticizer                |  | several                  |
| Disflamoll DPK                   | Plasticizer                | Diphenyl-kresyl-phosphate  | Lanxess                  |
| Dispergator DS                   | Processing aid             | Emulsion of higher alcohols, esters and fatty acids                                    | Kettlitz-Chemie          |
| Dispergator FL                   | Processing aid             | Blend of metal soaps, high boiling alcohols and fatty acids                            | Kettlitz-Chemie          |
| Dixie Clay                       | Filler                     | Hard clay  | Vanderbilt               |
| DNPT                             | Blowing agent              | Dinitroso-pentamethylene-tetramine   | several                  |
| DOTG                             | Accelerator                | Di-o-tolyl-guanidine   | several                  |
| DPG                              | Accelerator                | Diphenyl-guanidine   | several                  |
| DPTH                             | Accelerator                | Dipentamethylen-thiuram-hexasulfide  | several                  |
| DTDM                             | Accelerator                | Dithiomorpholine   | several                  |
| Duranit B                        | Reinforcing resin          | High styrene resin (60 % HSR)<br>No longer available.<br>Recommended: Europrene HS 630 |                          |
| Durex 0                          | Filler                     | Carbon black (similar to N-660)  | Orion Engineered Carbons |
| Dutral TER 4436                  | Polymer                    | EPDM, oil extended   | Polimeri Europa          |
| Dutral TER 6235                  | Polymer                    | EPDM, oil extended   | Polimeri Europa          |
| Dynasylan AMEO                   | Coupling agent             | 3-Aminopropyl-triethoxy-silane   | Evonik Industries        |
| Dyneon FC 2181Z                  | Polymer                    | FKM  | 3M                       |
| Edenol T810T                     | Plasticizer                | Trimellitate of linear C8-and C10-alcohols   | Safic-Alcan              |
| EDMA                             | Co-agent for peroxide cure | Ethylene glycol dimethacrylate   | several                  |
| Elastomag 170                    | Activator                  | Magnesium oxide  | several                  |
| Elastosil AUX<br>Curing Agent C6 | Curing agent               | 2,5-bis-(tert.-butylperoxy)-2,5-dimethylhexane,<br>45 % in silicone rubber             | Wacker Chemie            |
| Elastosil AUX<br>Curing Agent E  | Curing agent               | Bis-(2,4-dichlorbenzoyl-) peroxide,<br>50 % in silicone oil                            | Wacker Chemie            |
| Elastosil R 401/30               | Polymer                    | Q (high consistency silicone rubber)   | Wacker Chemie            |
| Elastosil R 401/40               | Polymer                    | Q (high consistency silicone rubber)   | Wacker Chemie            |
| Elastosil R 401/50               | Polymer                    | Q (high consistency silicone rubber)   | Wacker Chemie            |

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| Elastosil R 420/40                  | Polymer           | Q (high consistency silicone rubber)   | Wacker Chemie       |
| Elastosil R 420/50                  | Polymer           | Q (high consistency silicone rubber)   | Wacker Chemie       |
| Elastosil R 752/50                  | Polymer           | Q (high consistency silicone rubber)   | Wacker Chemie       |
| Elastosil R 752/70                  | Polymer           | Q (high consistency silicone rubber)   | Wacker Chemie       |
| Ethyl Tellurac                      | Accelerator       | Tellurium-diethyl-dithiocarbamate (TDEC)   | Vanderbilt          |
| ETU                                 | Accelerator       | Ethylene-thiourea (2-mercaptoimidazoline)  | several             |
| Europrene HS 630                    | Reinforcing resin | High styrene resin (63 % styrene)  | Polimeri Europa     |
| Evolute N 375<br>(ex Sunthene 4240) | Plasticizer       | Naphthenic mineral oil   | Petronas            |
| Exxon Butyl 365                     | Polymer           | IIR  | ExxonMobil Chemical |
| Factice                             | Processing aid    | Sulfur vulcanized vegetable oil  | several             |
| Faktis DS weich                     | Processing aid    | Sulfur vulcanized vegetable oil with addition of mineral oil                             | DOG-Chemie          |
| Faktis RC 141                       | Processing aid    | Sulfur vulcanized vegetable oil<br><br>No longer available.<br>Recommended: Rhenopren 14 |                     |
| Faktogel Rheinau H                  | Processing aid    | Sulfur chloride factice white<br><br>No longer available.<br>Recommended: Rhenopren EPS  |                     |
| FEF N-539                           | Filler            | Carbon black   | several             |
| FEF N-550                           | Filler            | Carbon black   | several             |
| First Latex Crepe                   | Polymer           | NR   | several             |
| Geniosil GF 58                      | Coupling agent    | Vinyl-tris (methoxy-ethoxy) silane   | Wacker Chemie       |
| Genitron AC2                        | Blowing agent     | Azodicarbonamide   | several             |
| Genitron AC4                        | Blowing agent     | Azodicarbonamide (Porofor ADC/M-C1)  | several             |
| Genitron ACR                        | Blowing agent     | Azodicarbonamide / toluenesulfohydrazide   | Lanxess             |
| Genitron CR                         | Blowing agent     | Composition undisclosed, decomposition temperature 160-190°C                             | several             |
| Genitron OB                         | Blowing agent     | Oxy-bis (benzenesulfonyl hydrazide) (OBSH)   | Lanxess             |
| GPF N-650                           | Filler            | Carbon black   | several             |
| GPF N-660                           | Filler            | Carbon black   | several             |
| Grundöl AP/E<br>Core 2500           | Plasticizer       | Paraffin oil, high viscosity (ex Flexon 815)   | ExxonMobil Chemical |

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| Grundöl AP/E<br>Core 600 | Plasticizer    | Paraffin oil, medium viscosity<br>(ex Flexon 876)   | ExxonMobil Chemical |
| Gulf Oil 2212            | Plasticizer    | Paraffin oil  | Gulf                |
| HAF                      | Filler         | Carbon black N-330  | several             |
| HAF N-330                | Filler         | Carbon black  | several             |
| Hard clay                | Filler         |   | several             |
| HVA Nr. 2                | Accelerator    | N,N'-m-phenylene dimaleimide  | several             |
| Irganox 1010             | Antioxidant    | Sterically hindered phenol  | BASF                |
| Irganox 1076             | Antioxidant    | Sterically hindered phenol  | BASF                |
| Iron oxide red           | Pigment        | Iron oxide  | several             |
| Jayflex DINA             | Plasticizer    | Di-isononyl-adipate   | ExxonMobil Chemical |
| Kagevest 25              | Coupling agent | Low molecular polybutadiene with<br>silizium alkoxy-groups<br>(ex Polyvest 25)                      | Schirm              |
| Keltan 312               | Polymer        | EPDM<br><br>No longer available.<br>Recommended: Keltan 2450  |                     |
| Keltan 509x100           | Polymer        | EPDM, oil extended<br><br>No longer available.<br>Recommended: Keltan 4869                          |                     |
| Keltan 512               | Polymer        | EPDM<br><br>No longer available.<br>Recommended: Keltan 4450  |                     |
| Keltan 512x50            | Polymer        | EPDM, oil extended<br><br>No longer available.<br>Recommended: Keltan 4450<br>+ 50 phr paraffin oil |                     |
| Keltan 578Z              | Polymer        | EPDM<br><br>No longer available.<br>Recommended: Keltan 5470 or<br>Keltan 5470Q                     |                     |
| Keltan 708x15Z           | Polymer        | EPDM, oil extended<br><br>No longer available.<br>Recommended: Keltan 6471                          |                     |
| Keltan 712               | Polymer        | EPDM<br><br>No longer available.<br>Recommended: Keltan 6460D or<br>Keltan 6950                     |                     |

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| Keltan 778Z          | Polymer           | EPDM<br>No longer available.<br>Recommended: Keltan 5470C                                  |                      |
| Keltan 2450          | Polymer           | EPDM   | Arlanxeo             |
| Keltan 2470          | Polymer           | EPDM   | Arlanxeo             |
| Keltan 2650          | Polymer           | EPDM   | Arlanxeo             |
| Keltan 3960Q         | Polymer           | EPDM   | Arlanxeo             |
| Keltan 3973          | Polymer           | EPDM   | Arlanxeo             |
| Keltan 4450          | Polymer           | EPDM   | Arlanxeo             |
| Keltan 4450S         | Polymer           | EPDM   | Arlanxeo             |
| Keltan 4455          | Polymer           | EPDM, oil extended   | Arlanxeo             |
| Keltan 4577          | Polymer           | EPDM, oil extended   | Arlanxeo             |
| Keltan 4869          | Polymer           | EPDM, oil extended   | Arlanxeo             |
| Keltan 5465Q         | Polymer           | EPDM, oil extended   | Arlanxeo             |
| Keltan 5469          | Polymer           | EPDM, oil extended   | Arlanxeo             |
| Keltan 5469Q         | Polymer           | EPDM, oil extended   | Arlanxeo             |
| Keltan 5470C         | Polymer           | EPDM   | Arlanxeo             |
| Keltan 5470Q         | Polymer           | EPDM   | Arlanxeo             |
| Keltan 6460D         | Polymer           | EPDM   | Arlanxeo             |
| Keltan 6471          | Polymer           | EPDM, oil extended   | Arlanxeo             |
| Keltan 6750          | Polymer           | EPDM   | Arlanxeo             |
| Keltan 6950          | Polymer           | EPDM   | Arlanxeo             |
| Keltan 7450          | Polymer           | EPDM   | Arlanxeo             |
| Keltan 8340A         | Polymer           | EPDM<br>No longer available.<br>Recommended: Keltan 8550                                   |                      |
| Keltan 8550          | Polymer           | EPDM   | Arlanxeo             |
| Kezadol GR           | Desiccant         | CaO, coated by special dispersing agents   | Kettlitz-Chemie      |
| Ketjenblack EC-600JD | Filler            | electroconductive carbon black   | Nouryon              |
| Koresin              | Tackifying agent  | Butylphenol-acetylene-resin  | BASF                 |
| Kronos 2056          | White pigment     | Titanium dioxide, rutile   | Kronos International |
| Kronos 2222          | White pigment     | Titanium dioxide, rutile   | Kronos International |
| Krylene HS 260       | Reinforcing resin | High styrene resin (65 % styrene)<br>No longer available.<br>Recommended: Europrene HS 630 |                      |



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| Krynac 2950 F         | Polymer                             | NBR, 30 % ACN<br><br>No longer available.<br>Recommended: NBR, 30 % ACN,<br>ML 1+4 (100°C) 53 MU |                             |
| LDPE LD 653           | Processing aid                      | Low density polyethylene,<br>MFR 22 g/10 min   | ExxonMobil Chemical         |
| Lipoxol 3000          | Filler activator                    | Polyethylene glycol  | Sasol Olefins & Surfactants |
| Lipoxol 4000          | Filler activator                    | Polyethylene glycol  | Sasol Olefins & Surfactants |
| Lipoxol 6000          | Filler activator                    | Polyethylene glycol  | Sasol Olefins & Surfactants |
| Litharge              | Activator                           | PbO  | several                     |
| Luperox 101XL45       | Curing agent                        | 2,5-dimethyl-2,5-di-(t-butylperoxy)-<br>hexane, 45 %   | Arkema                      |
| Luperox 130XL45       | Curing agent                        | 2,5-dimethyl-2,5-bis-(t-butylperoxy)-<br>hexin-3, 45 %   | Arkema                      |
| Luperox F40           | Curing agent                        | Bis-(t-butylperoxy-i-propyl)<br>benzene,<br>40 %   | Arkema                      |
| Luvomaxx CDPA         | Antioxidant                         | 4, 4'-bis-(1,1-dimethylbenzyl)-<br>diphenylamine   | Lehmann & Voss              |
| Luvomaxx Safecure CA  | Co-agent                            | Composition of aliphatic amines  | Lehmann & Voss              |
| Maglite DE            | Activator                           | MgO  | HallStar                    |
| Magnesium hydroxide   | Flame retardant                     |  | several                     |
| Magnesium oxide       | Activator                           | MgO  | several                     |
| Magnesium oxide light | Activator                           | MgO  | several                     |
| Martinal OL-111 LE    | Filler                              | Al(OH) <sub>3</sub>  | Albemarle (Martinswerk)     |
| MBT                   | Accelerator                         | Mercapto-benzothiazole   | several                     |
| MBTS                  | Accelerator                         | Dibenzo-thiazyl-disulfide  | several                     |
| Mediaplast EP-P       | Plasticizer                         | Polyalkylbenzene<br><br>No longer available.<br>Recommended: Mediaplast PX-2                     |                             |
| Mediaplast NB 4       | Plasticizer                         | Special adipine acid ester   | Kettlitz-Chemie             |
| Mediaplast PX-2       | Plasticizer                         | Semi-synthetic paraffin based<br>hydrocarbon   | Kettlitz-Chemie             |
| Mediaplast WH         | Tackifying agent,<br>processing aid | Aromatic resin   | Kettlitz-Chemie             |
| Mesamoll              | Plasticizer                         | Phenol alkylsulfonic acid ester  | Lanxess                     |

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| Mikrosöhl 40             | Filler                                 | Whiting  | Vereinigte Kreidewerke<br>Damman       |
| Mistron Vapor            | Filler                                 | Talc   | Imerys Talc                            |
| MMBI                     | Antioxidant                            | Methyl-mercapto-benzimidazole  | several                                |
| Mold Wiz INT-44/3PV      | Internal release and lubricating agent | Proprietary blend of synthetic resins and fatty glycerides with modified organic fatty acids | Axel Plastics Research<br>Laboratories |
| MT N-990                 | Filler                                 | Carbon black   | several                                |
| Naphthenic oil           | Plasticizer                            |  | several                                |
| Naugard 445              | Antioxidant                            | Substituted diphenylamine  | Chemtura                               |
| Naugex MBT               | Accelerator                            | Mercapto-benzothiazole   | Chemtura                               |
| NBR, 34 % ACN            | Polymer                                | NBR  | several                                |
| NDBC                     | Stabilizer                             | Nickel-dibutyldithiocarbamate  | several                                |
| Neoprene W               | Polymer                                | CR, mercaptan type   | DuPont                                 |
| Neoprene WHV             | Polymer                                | CR, mercaptan type   | DuPont                                 |
| Nipol 1042               | Polymer                                | NBR  | Zeon Europe                            |
| Norsolene S 85           | Tackifying agent                       | Aromatic resin   | Cray Valley                            |
| Norsolene S 105          | Tackifying agent                       | Aromatic resin   | Cray Valley                            |
| Norsolene S 155          | Tackifying agent                       | Aromatic resin   | Cray Valley                            |
| Norsorex 150 NA          | Polymer                                | Polynorbonene, oil extended  | Astrotech Advanced<br>Elastomerproduct |
| Norsorex<br>150 NA 25 EP | Polymer                                | Blend of polynorbonene and EPDM,<br>oil extended   | Astrotech Advanced<br>Elastomerproduct |
| Novares C 90             | Processing aid                         | Cumaron-inden-resin,<br>softening point approx. 90°C   | Rütgers                                |
| NR                       | Polymer                                | NR   | several                                |
| NR Smoked Sheets         | Polymer                                | NR   | several                                |
| NR SMR 20                | Polymer                                | NR   | several                                |
| Nytex 4700               | Plasticizer                            | Naphthenic oil   | Nynas                                  |
| OBSH                     | Blowing agent                          | Oxy-bis (benzenesulfonyl hydrazide)  | several                                |
| Ofalub SEO               | Processing aid                         | Phosphoric acid ester of modified fatty alcohols   | Safic-Alcan                            |
| Oleamide                 | Processing aid                         |  | several                                |
| Omya BL                  | Filler                                 | Whiting  | Omya                                   |
| Omya BSH                 | Filler                                 | Whiting, surface treated   | Omya                                   |
| Omya EX H1               | Filler                                 | Whiting  | Omya                                   |
| Paraffin oil             | Plasticizer                            |  | several                                |
| Paraffin wax             | Processing aid                         |  | several                                |

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| PAT 44/04                           | Processing aid                 | Fatty acid salts  | Würtz                 |
| Pb <sub>3</sub> O <sub>4</sub> 80 % | Crosslinking agent, stabilizer |   | several               |
| PEG 3000                            | Filler activator               | Polyethylene glycol   | several               |
| PEG 3350                            | Filler activator               | Polyethylene glycol   | several               |
| PEG 3400                            | Filler activator               | Polyethylene glycol   | several               |
| PEG 4000                            | Filler activator               | Polyethylene glycol   | several               |
| PEG 6000                            | Filler activator               | Polyethylene glycol   | several               |
| Perbunan 3807 NS                    | Polymer                        | NBR, 38 % ACN<br><br>No longer available.<br>Recommended: Perbunan 3945 F                       |                       |
| Perbunan 3445 F                     | Polymer                        | NBR, 34 % ACN   | Arlanxeo              |
| Perbunan 3945 F                     | Polymer                        | NBR, 39 % ACN   | Arlanxeo              |
| Perkacit TBzTD                      | Accelerator                    | Tetrabenzyl-thiuram-disulfide   | Performance Additives |
| Perkacit TDEC                       | Accelerator                    | Tellurium-diethyl-dithiocarbamate   | Performance Additives |
| Perkacit ZBEC                       | Accelerator                    | Zinc-dibenzyl-dithiocarbamate   | Performance Additives |
| Perkacit ZDBC                       | Accelerator                    | Zinc-dibutyl-dithiocarbamate  | Performance Additives |
| Perkacit ZDEC                       | Accelerator                    | Zinc-diethyl-dithiocarbamate  | Performance Additives |
| Perkadox 14-40                      | Curing agent                   | Bis (t-butylperoxy-i-propyl) benzene, 40 %  | Nouryon               |
| Perkadox 14-40B                     | Curing agent                   | Bis (t-butylperoxy-i-propyl) benzene, 40 % bound to whiting and silica                          | Nouryon               |
| Perkadox 14-40MB                    | Curing agent                   | Bis (t-butylperoxy-i-propyl) benzene, 40 % polymer bound  | Nouryon               |
| Perkadox BC-40S                     | Curing agent                   | Dicumyl peroxide, paste 40 % in silicone oil  | Nouryon               |
| Perkadox BC-FF                      | Curing agent                   | Dicumyl peroxide  | Nouryon               |
| Perkadox PD-50S-PS                  | Curing agent                   | Di(2,4-dichlorobenzoyl) peroxide DCBP<br>paste 50% active ingredient in silicone oil and silica | Nouryon               |
| Perkadox PM-50S-PS                  | Curing agent                   | Di(4-methylbenzoyl) peroxide DMBP<br>paste 50% active ingredient in silicone oil and silica     | Nouryon               |
| Perkasil KS 300                     | Filler                         | Precipitated silica, 130 m <sup>2</sup> /g  | Grace                 |
| Perkasil KS 408                     | Filler                         | Precipitated silica, 175 m <sup>2</sup> /g  | Grace                 |
| Phenodur EP 560                     | Crosslinking resin             | Phenolic resin  | Allnex                |

## List of Compounding Materials

| Product                            | Function         | Description   | Supplier                    |
|------------------------------------|------------------|---|-----------------------------|
| Polestar 200R                      | Filler           | Calcined clay   | Imerys Performance Minerals |
| Polybutadiene BR 1220              | Polymer          | BR  | several                     |
| Polydispersion E (VC) D-40         | Curing agent     | Bis (t-butylperoxy-i-propyl) benzene, 40 %                              | Omya (Croxton & Garry)      |
| Polyethylene glycol                | Filler activator |   | several                     |
| Polyethylene wax                   | Processing aid   |   | several                     |
| Polyplastol 6                      | Processing aid   | Zinc salt of fatty acids  | Elastomeri Polimeri         |
| Polysar EPDM 346                   | Polymer          | EPDM<br>No longer available.<br>Recommended: Keltan 2470                |                             |
| Polysar EPDM 585                   | Polymer          | EPDM<br>No longer available.<br>Recommended: Keltan 3960Q               |                             |
| Polysar EPDM 5465                  | Polymer          | EPDM, oil extended<br>No longer available.<br>Recommended: Keltan 5469Q |                             |
| Polysar EPDM 5875                  | Polymer          | EPDM, oil extended<br>No longer available.<br>Recommended: Keltan 4869  |                             |
| Polysar EPDM 6463                  | Polymer          | EPDM, oil extended<br>No longer available.<br>Recommended: Keltan 5465Q |                             |
| Porofor TSH                        | Blowing agent    | Toluene sulfohydrazide  | Lanxess                     |
| Primol 352                         | Plasticizer      | White oil (medical grade)   | ExxonMobil Chemical         |
| Process Oil P 100 (ex Sunpar 150)  | Plasticizer      | Paraffinic mineral oil  | Petronas                    |
| Process Oil P 460 (ex Sunpar 2280) | Plasticizer      | Paraffinic mineral oil  | Petronas                    |
| Protektor G 35 P                   | Antiozonant      | Micro crystalline wax   | Paramelt                    |
| Protektor G 3108                   | Antiozonant      | Micro crystalline wax   | Paramelt                    |
| Protektor G 3888                   | Antiozonant      | Micro crystalline wax   | Paramelt                    |
| Purex HS 45                        | Filler           | Carbon black  | Orion Engineered Carbons    |
| Quartz sand                        | Filler           |   | several                     |
| Resin                              | Processing aid   |   | several                     |
| Rhenocure CA                       | Accelerator      | Diphenyl-thiourea   | Rhein Chemie                |
| Rhenocure TP/S                     | Accelerator      | Zinc-dialkyl-dithiophosphate, 67 % bound to silica                      | Rhein Chemie                |

## List of Compounding Materials

| <b>Product</b>        | <b>Function</b>            | <b>Description</b>  | <b>Supplier</b> |
|-----------------------|----------------------------|---|-----------------|
| Rhenofit C            | Desiccant                  | CaO   | Rhein Chemie    |
| Rhenofit DDA          | Antioxidant                | Styrenated diphenylamine  | Rhein Chemie    |
| Rhenofit EDMA/S       | Co-agent for peroxide cure | Ethylen glycol-dimethacrylate, 70 % bound to silica   | Rhein Chemie    |
| Rhenofit OCD          | Antioxidant                | Octylated diphenylamine (ODPA)  | Rhein Chemie    |
| Rhenofit TAC/S        | Co-agent for peroxide cure | Triallyl cyanurate, 70 % bound to silica  | Rhein Chemie    |
| Rhenofit TRIM/S       | Co-agent for peroxide cure | Trimethylol-propane-trimethacrylate, 70 % bound to silica   | Rhein Chemie    |
| Rhenogran ADT-50      | Accelerator                | Amino dithiophosphate, 50 % polymer bound   | Rhein Chemie    |
| Rhenogran CaO-80      | Desiccant                  | 80 % CaO, surface treated   | Rhein Chemie    |
| Rhenogran CBS-80      | Accelerator                | Cyclohexyl-benzothiazyl-sulfenamide, 80 % polymer bound   | Rhein Chemie    |
| Rhenogran CLD-80      | Accelerator                | Dithio-caprolactam, 80 % polymer bound  | Rhein Chemie    |
| Rhenogran CUT-50      | Accelerator                | Copper-dialkyl-dithiophosphate, 50 % polymer bound  | Rhein Chemie    |
| Rhenogran DPG-80      | Accelerator                | Diphenyl-guanidine, 80 % polymer bound  | Rhein Chemie    |
| Rhenogran DTDM-80     | Accelerator                | 4,4'-dithio-dimorpholine, 80 % polymer bound  | Rhein Chemie    |
| Rhenogran ETU-80      | Accelerator                | Ethylene-thiourea, 80 % polymer bound   | Rhein Chemie    |
| Rhenogran Geniplex-70 | Accelerator                | Zinc-dicyanato-diamine, 70 % polymer bound  | Rhein Chemie    |
| Rhenogran MBT-80      | Accelerator                | Mercapto-benzothiazole, 80 % polymer bound  | Rhein Chemie    |
| Rhenogran MBTS-80     | Accelerator                | Dibenzo-thiazyl-disulfide, 80 % polymer bound   | Rhein Chemie    |
| Rhenogran P 50        | Hydrolysis stabilizer      | 50 % polycarbodiimide / 50 % ethylene-vinylacetate-copolymer<br><br>No longer available.<br>Recommended: Rhenogran PCD-50/EVA |                 |
| Rhenogran PCD-50/EVA  | Hydrolysis stabilizer      | 50 % polycarbodiimide / 50 % ethylene-vinylacetate-copolymer / SiO <sub>2</sub>   | Rhein Chemie    |
| Rhenogran S-80        | Curing agent               | Sulfur  | Rhein Chemie    |

## List of Compounding Materials

| Product              | Function                   | Description  | Supplier                      |
|----------------------|----------------------------|--|-------------------------------|
| Rhenogran TBBS-80    | Accelerator                | N-tert.-butyl-2-benzothiazyl sulfenamide,<br>80 % polymer bound                              | Rhein Chemie                  |
| Rhenogran TMTD-70    | Accelerator                | Tetramethyl-thiuram-disulfide,<br>70 % polymer bound   | Rhein Chemie                  |
| Rhenogran TMTM-80    | Accelerator                | Tetramethyl-thiuram-monosulfide,<br>80 % polymer bound                                       | Rhein Chemie                  |
| Rhenogran TP-50      | Accelerator                | Zinc-dialkyl-dithiophosphate,<br>50 % polymer bound  | Rhein Chemie                  |
| Rhenogran ZAT-70     | Accelerator                | Zinc-amine-dithiophosphate-complex,<br>70 % polymer bound                                    | Rhein Chemie                  |
| Rhenogran ZBEC-70    | Accelerator                | Zinc-dibenzyl-dithiocarbamate,<br>70 % polymer bound   | Rhein Chemie                  |
| Rhenogran ZDBC-80    | Accelerator                | Zinc-dibutyl-dithiocarbamate,<br>80 % polymer bound  | Rhein Chemie                  |
| Rhenogran ZMMBI-50   | Antioxidant                | Zinc-methyl-mercapto-benzimidazole,<br>50 % polymer bound                                    | Rhein Chemie                  |
| Rhenopren 14         | Processing aid             | Sulfur vulcanized vegetable oil  | Rhein Chemie                  |
| Rhenopren EPS        | Processing aid             | Sulfur and chlorine-free vulcanized vegetable oils   | Rhein Chemie                  |
| Rhenosin W 759       | Plasticizer                | Ether/ester-compound   | Rhein Chemie                  |
| SABIC LLDPE 0132HS00 | Processing aid             | Medium density polyethylene,<br>MFR 0,8 g/10 min   | Sabic                         |
| Sachtleben R-KB-2    | White pigment              | Titanium dioxide, rutile<br><br>No longer available.<br>Recommended: Titanium dioxide R-KB-2 |                               |
| Sachtleben R-U-5     | White pigment              | Titanium dioxide, rutile   | Venator Materials Corporation |
| Safic-Chem OMB       | Antioxidant                | 2,2'-Methylene-bis(4-methyl-6-tert. butylphenol)   | Safic Alcan                   |
| Saret SR-517         | Co-agent for peroxide cure | Trimethacrylate ester (retarded)   | Sartomer                      |
| Sartomer SR-206      | Co-agent for peroxide cure | Ethylene glycol-dimethacrylate (EDMA)  | Sartomer                      |
| Sartomer SR-350      | Co-agent for peroxide cure | Trimethylol-propane-trimethacrylate (TRIM, TMPT)   | Sartomer                      |
| SBR                  | Polymer                    |  | several                       |
| SBR 1502             | Polymer                    | SBR  | several                       |
| Scorchguard O        | Activator                  | Magnesium oxide dispersion   | Rhein Chemie                  |
| Shell Gravex Oil 921 | Plasticizer                | Naphthenic mineral oil   | Shell                         |

## List of Compounding Materials

| <b>Product</b>             | <b>Function</b>           | <b>Description</b>  | <b>Supplier</b>                 |
|----------------------------|---------------------------|---|---------------------------------|
| Si 69                      | Coupling agent            | Bis-(triethoxy-silyl-propyl)-tetra-sulfane                                      | Evonik Industries               |
| Silanogran PV              | Coupling agent            | 50 % granules of a trimethoxy-silylgroup containing low molecular polybutadiene | Kettlitz-Chemie                 |
| Sikron SF 600              | Filler                    | Quartz flour  | Quarzwerte                      |
| Silanogran VES             | Coupling agent            | 50 % granules of triethoxy-vinyl silane with oligomeric alkyl groups            | Kettlitz-Chemie                 |
| Silica                     | Filler                    |   | several                         |
| SILFIT Z 91                | Filler                    | Neuburg Siliceous Earth, calcined   | HOFFMANN MINERAL                |
| SILLIKOLLOID P 87          | Filler                    | Neuburg Siliceous Earth   | HOFFMANN MINERAL                |
| SILLITIN N 82              | Filler                    | Neuburg Siliceous Earth   | HOFFMANN MINERAL                |
| SILLITIN N 85              | Filler                    | Neuburg Siliceous Earth   | HOFFMANN MINERAL                |
| SILLITIN V 85              | Filler                    | Neuburg Siliceous Earth   | HOFFMANN MINERAL                |
| SILLITIN V 88              | Filler                    | Neuburg Siliceous Earth   | HOFFMANN MINERAL                |
| SILLITIN Z 86              | Filler                    | Neuburg Siliceous Earth   | HOFFMANN MINERAL                |
| SILLITIN Z 86 PURISS       | Filler                    | Neuburg Siliceous Earth   | HOFFMANN MINERAL                |
| Silquest A-172NT           | Coupling agent            | Vinyl-tris (methoxy-ethoxy) silane  | Momentive Performance Materials |
| Silquest A-189             | Coupling agent            | Mercaptopropyl-trimethoxy-silane  | Momentive Performance Materials |
| SMR 5                      | Polymer                   | NR  | several                         |
| SMR CV 50                  | Polymer                   | NR, constant viscosity  | several                         |
| SMR CV 60                  | Polymer                   | NR, constant viscosity  | several                         |
| SP-1056                    | Crosslinking resin        | Brominated octylphenol resin (heat reactive)                                    | SI Group (ex Schenectady)       |
| Speswhite                  | Filler                    | Soft clay   | Imerys Performance Minerals     |
| Spheron 5000               | Filler                    | Carbon black  | Cabot                           |
| SRF N-762                  | Filler                    | Carbon black  | several                         |
| SRF N-765                  | Filler                    | Carbon black  | several                         |
| SRF N-770                  | Filler                    | Carbon black  | several                         |
| SRF N-774                  | Filler                    | Carbon black  | several                         |
| Stearic acid               | Processing aid, activator |   | several                         |
| Sterically hindered phenol | Antioxidant               |   | several                         |
| Struktol Activator 73      | Activator                 | Blend of zinc soaps of aliphatic and aromatic carboxylic acids                  | Schill + Seilacher              |
| Struktol AW 1              | Antistatic plasticizer    | Polyethylene glycol ester   | Schill + Seilacher              |

## List of Compounding Materials

| Product           | Function                   | Description   | Supplier           |
|-------------------|----------------------------|---|--------------------|
| Struktol KW 326   | Plasticizer                | Synthetic ester plasticizer                           | Schill + Seilacher |
| Struktol KW 460   | Plasticizer                | Polyglycol ester                                      | Schill + Seilacher |
| Struktol KW 759   | Plasticizer                | Aliphatic ether/ester                                 | Schill + Seilacher |
| Struktol SU 109   | Curing agent               | Preparation of insoluble sulfur, 75 %                 | Schill + Seilacher |
| Struktol SU 135   | Curing agent               | Preparation of insoluble sulfur, 75 %                 | Schill + Seilacher |
| Struktol TS 30    | Tackifying agent           | Aliphatic / aromatic soft resin                       | Schill + Seilacher |
| Struktol TS 30-DL | Tackifying agent           | Aliphatic / aromatic soft resin                       | Schill + Seilacher |
| Struktol TS 35    | Tackifying agent           | Aliphatic / aromatic soft resin                       | Schill + Seilacher |
| Struktol WB 16    | Processing aid             | Blend of soaps of fatty acids                         | Schill + Seilacher |
| Struktol WB 212   | Processing aid             | Blend of fatty acid esters and water, bound to filler | Schill + Seilacher |
| Struktol WB 217   | Processing aid             | Blend of fatty acid esters                            | Schill + Seilacher |
| Struktol WB 222   | Processing aid             | Ester of saturated fatty acids                        | Schill + Seilacher |
| Struktol WB 300 A | Plasticizer                | Synthetic ester                                       | Schill + Seilacher |
| Struktol WB 902   | Activator                  | Magnesium oxide preparation                           | Schill + Seilacher |
| Struktol WS 180   | Processing aid             | Silicone / fatty acid derivate condensation product   | Schill + Seilacher |
| Struktol WS 280   | Processing aid             | Organosilicone compound, bound to anorganic carrier   | Schill + Seilacher |
| Styrenated phenol | Antioxidant                |   | several            |
| Sulfur            | Curing agent               |   | several            |
| Supercarborex     | Filler                     | Whiting   | Omya               |
| TAC               | Co-agent for peroxide cure | Triallyl-cyanurate                                    | several            |
| TAC /GR 50        | Co-agent for peroxide cure | Triallyl-cyanurate, granules 50 %                     | Kettlitz-Chemie    |
| TAC /GR 70        | Co-agent for peroxide cure | Triallyl-cyanurate, granules 70 %                     | Kettlitz-Chemie    |
| Tackirol 201      | Crosslinking resin         | Alkylphenol-formaldehyde resin                        | Taoka Chemical     |
| TAIC              | Co-agent for peroxide cure | Triallyl isocyanurate                                 | several            |
| TDEC              | Accelerator                | Tellurium-diethyl-dithiocarbamate                     | several            |
| TDEC Gran 75      | Accelerator                | Tellurium-diethyl-dithiocarbamate, 75 % polymer bound | several            |
| TEA               | Filler activator           | Triethanol amine                                      | several            |
| Tecnoflon FOR M1  | Crosslinking batch         | Based on bisphenol A/F                                | Solvay Solexis     |
| Tecnoflon FOR M2  | Accelerator batch          | Phosphonium salt                                      | Solvay Solexis     |



## List of Compounding Materials

| Product                                | Function                   | Description  | Supplier              |
|--|----------------------------|--|-----------------------|
| Tecnoflon T 636                        | Polymer                    | FKM  | Solvay Solexis        |
| TETD                                   | Accelerator                | Tetraethyl-thiuram-disulfide   | several               |
| Tetrone A                              | Accelerator                | Dipentamethylene-thiuram-hexa-sulfide  | DuPont                |
| Therban 3407                           | Polymer                    | EPDM   | Lanxess               |
| Tin(II) chloride dihydrate crystalline | Activator                  |  | several               |
| Tinuvin 123                            | Light stabilizer           | Liquid HALS stabilizer based on amino ether  | BASF                  |
| Tinuvin 622 LD                         | Antioxidant                | Sterically hindered amine  | BASF                  |
| Titanium dioxide                       | White pigment              |  | several               |
| Titanium dioxide rutile                | White pigment              | Rutile type  | several               |
| Titanium dioxide R-KB-2                | White pigment              | Rutile type  | several               |
| TMPT                                   | Co-agent for peroxide cure | Trimethylol-propane-trimethacrylate  | several               |
| TMQ                                    | Antioxidant                | 2,2,4-trimethyl-1,2-dihydro-quinoline  | several               |
| TMTD                                   | Accelerator                | Tetramethyl-thiuram-disulfide  | several               |
| TMTM                                   | Accelerator                | Tetramethyl-thiuram-monosulfide  | several               |
| TP 2005087                             | Filler                     | Neuburg Siliceous Earth, surface treated   | HOFFMANN MINERAL      |
| TRACEL K 3/95                          | Blowing agent              | Modified azodicarbonamide, oil-treated   | Tramaco               |
| TRACEL OBSH 75 EPR-1                   | Blowing agent              | Oxy-bis (benzenesulfonyl hydrazide) (OBSH), predispersed in EPDM                     | Tramaco               |
| Trigonox 101                           | Curing agent               | 2,5-dimethyl-2,5-di (tert-butyl-peroxy) hexane                                       | Nouryon               |
| Trigonox 29-40                         | Curing agent               | 1,1-di-t-butylperoxy-3,3,5-trimethyl-cyclohexane, 40 %                               | Nouryon               |
| Trigonox 29-40B                        | Curing agent               | 1,1-di-t-butylperoxy-3,3,5-trimethyl-cyclohexane<br>40 % bound to whiting and silica | Nouryon               |
| Trigonox C-50D                         | Curing agent               | Tert-butyl-peroxy-benzoate,<br>50 % bound to silica                                  | Nouryon               |
| TRIM                                   | Co-agent for peroxide cure | trimethylol-propane-trimethacrylate (TMPT)   | several               |
| Tronox R-UF                            | White pigment              | Titanium dioxide<br><br>No longer available.<br>Recommended: Crenox R-U-5.           |                       |
| Tudalen B 8014 Extra                   | Plasticizer                | Paraffin oil   | H & R Group (Dahleke) |

## List of Compounding Materials

| Product         | Function       | Description  | Supplier            |
|-----------------|----------------|--|---------------------|
| Ultrasil VN 2   | Filler         | Precipitated silica, 130 m <sup>2</sup> /g   | Evonik Industries   |
| Ultrasil VN 3   | Filler         | Precipitated silica, 170 m <sup>2</sup> /g   | Evonik Industries   |
| Vamac D         | Polymer        | AEM<br><br>No longer available.<br>Recommended: Vamac DP   |                     |
| Vamac DP        | Polymer        | AEM  | DuPont              |
| Vamac G         | Polymer        | AEM  | DuPont              |
| Vamac G1        | Polymer        | AEM<br><br>No longer available.<br>Recommended: Vamac G  |                     |
| Vamac Ultra IP  | Polymer        | AEM  | DuPont              |
| Vanfre VAM      | Processing aid | Polyoxyethylene octadecyl ether phosphate  | Vanderbilt          |
| Vanox ZMTI      | Antioxidant    | Zinc-mercapto-tolu-imidazole   | Vanderbilt          |
| Varox DBPH-50   | Curing agent   | 2,5-dimethyl-2,5-di (tert.-butyl-peroxy) hexane  | Vanderbilt          |
| Vaseline        | Processing aid |  | several             |
| Vestolen A 3512 | Processing aid | High density polyethylene,<br>MFR 0,5 g/10 min<br><br>No longer available.<br>Recommended:<br>SABIC LLDPE 0132HS00 |                     |
| Vistalon 404    | Polymer        | EPDM   | ExxonMobil Chemical |
| Vistalon 2504   | Polymer        | EPDM   | ExxonMobil Chemical |
| Vistalon 3666   | Polymer        | EPDM, oil extended   | ExxonMobil Chemical |
| Vistalon 5601   | Polymer        | EPDM   | ExxonMobil Chemical |
| Vistalon 5630   | Polymer        | EPDM, oil extended<br><br>No longer available.<br>Recommended: Vistalon 5601<br>+ 30 phr plasticizer oil           |                     |
| Vistalon 6505   | Polymer        | EPDM   | ExxonMobil Chemical |
| Vistalon 6630   | Polymer        | EPDM, oil extended<br><br>No longer available.<br>Recommended: Vistalon 8700<br>+ 30 phr plasticizer oil           |                     |
| Vistalon 7001   | Polymer        | EPDM   | ExxonMobil Chemical |
| Vistalon 7500   | Polymer        | EPDM   | ExxonMobil Chemical |
| Vistalon 7606   | Polymer        | EPDM<br><br>No longer available.<br>Recommended: Vistalon 7001   |                     |

## List of Compounding Materials

| Product            | Function      | Description  | Supplier            |
|--------------------|---------------|--|---------------------|
| Vistalon 8510      | Polymer       | EPDM, oil extended<br>No longer available.<br>Recommended: Vistalon 8800 |                     |
| Vistalon 8600      | Polymer       | EPDM   | ExxonMobil Chemical |
| Vistalon 8700      | Polymer       | EPDM   | ExxonMobil Chemical |
| Vistalon 8800      | Polymer       | EPDM, oil extended   | ExxonMobil Chemical |
| Vistalon 9500      | Polymer       | EPDM   | ExxonMobil Chemical |
| Viton GAL-200S     | Polymer       | FKM  | Chemours            |
| Viton A-201C       | Polymer       | FKM  | Chemours            |
| Vulcofac F45       | Aktivator     | Calciumhydroxid  | Safic-Alcan         |
| Vulcofac HDC       | Aktivator     | Hexamethylene diamine carbamate  | Safic-Alcan         |
| Vulkacit 576       | Accelerator   | Condensation product of butyraldehyde und aniline                        | Lanxess             |
| Vulkacit CZ        | Accelerator   | Cyclohexyl-benzothiazyl-sulfenamide (CBS)                                | Lanxess             |
| Vulkacit D         | Accelerator   | Diphenyl-guanidine   | Lanxess             |
| Vulkacit DM        | Accelerator   | Dibenzo-thiazyl-disulfide (MBTS)   | Lanxess             |
| Vulkacit DM/C      | Accelerator   | Dibenzo-thiazyl-disulfide (MBTS)   | Lanxess             |
| Vulkacit DZ/EG-C   | Accelerator   | N,N-dicyclohexyl-2-benzothiazyl sulfenamide (DCBS)                       | Lanxess             |
| Vulkacit I         | Accelerator   | Dimethyl-diphenyl-thiuram-disulfide                                      | Lanxess             |
| Vulkacit LDA       | Accelerator   | Zinc-diethyl-dithiocarbamate (ZDEC)                                      | Lanxess             |
| Vulkacit Mercapto  | Accelerator   | Mercapto-benzothiazole (MBT)   | Lanxess             |
| Vulkacit MOZ       | Accelerator   | Benzothiazyl-sulfenmorpholide (MBS)                                      | Lanxess             |
| Vulkacit P extra N | Accelerator   | Zinc-ethylphenyl-dithiocarbamate (ZEPC)                                  | Lanxess             |
| Vulkacit Thiuram   | Accelerator   | Tetramethyl-thiuram-disulfide (TMTD)                                     | Lanxess             |
| Vulkalent B/C      | Cure retarder | Phthalic anhydride   | Lanxess             |
| Vulkalent E/C      | Cure retarder | Sulfonamide derivate   | Lanxess             |
| Vulkanol 81        | Plasticizer   | Blend of thioesters and carboxylic acid esters                           | Lanxess             |
| Vulkanol FH        | Plasticizer   | Aromatic polyether   | Lanxess             |
| Vulkanol OT        | Plasticizer   | Ether-thioether  | Lanxess             |
| Vulkanox 4010 NA   | Antioxidant   | Isopropyl-phenyl-p-phenylene-diamine (IPPD)                              | Lanxess             |
| Vulkanox 4020      | Antioxidant   | 1,3-dimethylbutyl-phenyl-p-phenylene diamine (6PPD)                      | Lanxess             |

## List of Compounding Materials

| Product               | Function       | Description  | Supplier                      |
|-----------------------|----------------|--|-------------------------------|
| Vulkanox BKF          | Antioxidant    | 2,2'-methylene-bis-(4-methyl-6-tert-butylphenol) (BPH)               | Lanxess                       |
| Vulkanox HS           | Antioxidant    | 2,2,4-trimethyl-1,2-dihydroquinoline (TMQ), polymerized              | Lanxess                       |
| Vulkanox KSM          | Antioxidant    | Alkylated phenol<br>No longer available.<br>Recommended: Vulkanox SP |                               |
| Vulkanox MB           | Antioxidant    | Mercapto-benzimidazole (MBI)   | Lanxess                       |
| Vulkanox MB/MG        | Antioxidant    | Mercapto-benzimidazole (MBI), microgranules                          | Lanxess                       |
| Vulkanox SP           | Antioxidant    | Styrenated phenol  | Lanxess                       |
| Vulkanox ZMB 2        | Antioxidant    | Zinc-methyl-mercapto-benzimidazole (ZMMBI)                           | Lanxess                       |
| Vulkanox ZMB 2/C-5    | Antioxidant    | Zinc-4- and 5-methyl-2-mercapto-benzimidazole (ZMMBI)                | Lanxess                       |
| Vulkasil N            | Filler         | Precipitated silica, 130 m <sup>2</sup> /g                           | Lanxess                       |
| Vulkasil S            | Filler         | Precipitated silica, 175 m <sup>2</sup> /g                           | Lanxess                       |
| Wax                   | Processing aid |  | several                       |
| Weichmacher 450       | Plasticizer    | Aromatic oil   | Fuchs Europe<br>Schmierstoffe |
| Whiting               | Filler         |  | several                       |
| Winnofil S            | Filler         | Precipitated calcium carbonate, surface treated                      | Solvay                        |
| Wollastonite          | Filler         |  | several                       |
| X_Butyl RB 301        | Polymer        | IIR  | Arlanxeo                      |
| Z5MC                  | Accelerator    | Zinc-pentamethylene-dithiocarbamate                                  | several                       |
| ZBEC                  | Accelerator    | Zinc-dibenzyl-dithiocarbamate  | several                       |
| ZBPD                  | Accelerator    | Zinc-dibutyl-dithiophosphate   | several                       |
| ZDBC                  | Accelerator    | Zinc-dibutyl-dithiocarbamate   | several                       |
| ZDEC                  | Accelerator    | Zinc-diethyl-dithiocarbamate   | several                       |
| ZDMC                  | Accelerator    | Zinc-dimethyl-dithiocarbamate  | several                       |
| ZEPC                  | Accelerator    | Zinc-ethylphenyl-dithiocarbamate                                     | several                       |
| Zetpol 1010           | Polymer        | HNBR, 44 % ACN   | Zeon Europe                   |
| Zinc oxide            | Activator      |  | several                       |
| Zinc oxide RS         | Activator      | Zinc oxide   | several                       |
| Zinkoxyd aktiv        | Activator      | Zinc oxide   | Lanxess                       |
| Zinc White Harzsiegel | Activator      | Zinc oxide   | Norzinco                      |

## List of Compounding Materials

| <b>Product</b> | <b>Function</b>              | <b>Description</b>          | <b>Supplier</b> |
|----------------|------------------------------|-----------------------------|-----------------|
| Zinc stearate  | Processing aid,<br>activator |                             | several         |
| ZIX            | Accelerator                  | Zinc-isopropyl-xanthogenate | several         |