

Guide formulation - page 1 of 2

**AUTOMOTIVE INDUSTRY****Fuel hose****Fuel hose lining, antistatic****70 Shore A, NBR, sulfur cure**

| Guide formulation of Schill + Seilacher | 6256.0/D-3 |
|---|------------|
| Perbunan 3945 F                         | 100.0      |
| Zinc White Harzsiegel                   | 3.0        |
| Ketjenblack EC-600JD                    | 5.0        |
| Carbon black N-330 (Statex)             | 20.0       |
| SILLITIN N 85                           | 70.0       |
| Struktol WB 300 A )*                    | 15.0       |
| Struktol WB 222                         | 2.0        |
| Vulkanox HS/LG                          | 1.0        |
| Vulkacit DZ/EG-C                        | 2.8        |
| Perkacit ZBEC pd                        | 2.5        |
| Vulkalent E/C                           | 0.6        |
| Struktol SU 109                         | 0.8        |
| Total phr                               | 222.7      |

)\* Struktol WB 300 A can be replaced by Struktol KW 326

**Mooney Viscosity**

ML (1+4) 100°C MU 49

**ODR, 150°C**

|                  |     |      |
|------------------|-----|------|
| ts <sub>2</sub>  | min | 1.1  |
| tc <sub>10</sub> | min | 0.86 |
| tc <sub>90</sub> | min | 5.84 |

*Our applications engineering advice and the information contained in this formulation are based on experience and are made to the best of our knowledge and belief, they must be regarded however as non-binding advice without guarantee. Working and employment conditions over which we have no control exclude any damage claim arising from the use of our data and recommendations. Furthermore we cannot assume any responsibility for patent infringements, which might result from the use of our information.*

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**Physical properties****Cure 15 min @ 150°C**

|                                    |             |                   |
|------------------------------------|-------------|-------------------|
| Hardness                           | Shore A     | 71                |
| Tensile strength                   | MPa         | 10.6              |
| Modulus 100 %                      | MPa         | 2.7               |
| Modulus 300 %                      | MPa         | 6.4               |
| Elongation at break                | %           | 437               |
| Tear resistance (trousers)         | N/mm        | 7.8               |
| Compression set                    |             |                   |
| 72 h @ 23°C                        | %           | 16.4              |
| Volume resistivity                 | $\Omega$ cm | $< 3 \times 10^5$ |
| Blooming after storage 1 week @ RT |             | no                |

**Air aging, 168 h @ 70°C**

|                              |         |      |
|------------------------------|---------|------|
| Hardness                     | Shore A | 73   |
| Tensile strength             | MPa     | 11.2 |
| Modulus 100 %                | MPa     | 3.4  |
| Modulus 300 %                | MPa     | 8.0  |
| Elongation at break          | %       | 394  |
| Tear resistance (trousers)   | N/mm    | 8.3  |
| $\Delta$ Hardness            | Shore A | +2   |
| $\Delta$ Tensile strength    | %       | +5.7 |
| $\Delta$ Modulus 100 %       | %       | +26  |
| $\Delta$ Modulus 300 %       | %       | +25  |
| $\Delta$ Elongation at break | %, rel. | -10  |

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