AUTOMOTIVE INDUSTRY
Radiator hose

Low electrical conductivity
70 Shore A, EPDM, sulfur cure

Guide formulation of HOFFMANN MINERAL	M 534.0/7
Vistalon 7001	100.0
Stearic acid	1.0
Zinkoxyd aktiv	5.0
Corax N 650	30.0
AKTISIL MM	150.0
Process Oil P 460 (ex Sunpar 2280)	60.0
Sulfur	0.2
TMTD pdr	1.5
TMTM pdr-d	1.5
Perkacit ZDBC pdr	1.5
DTDM	3.0
Total phr	353.7

Density		g/cm³	1.33
Mooney Viscosity			
ML (1+4) 120°C	DIN 53523, T3	MU	44
Mooney Scorch			
ML (5 MU) 120°C	DIN 53523, T4	min	16.5
Goettfert Elastograph, ± 0.2°, 170°C			
t_{10}	DIN 53529, T3	min	1.2
t_{90}	DIN 53529, T3	min	4.3

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M 534.0/7

Physical properties			
Press cure 10 min @ 170°C			
Hardness	DIN ISO 7619-1	Shore A	71
Modulus 100 %	DIN 53504, S2	MPa	4.1
Modulus 300 %	DIN 53504, S2	MPa	7.2
Tensile strength	DIN 53504, S2	MPa	10.7
Elongation at break	DIN 53504, S2	%	510
Rebound	DIN 53512	%	53
Tear resistance	DIN ISO 34-1, A	N/mm	17.7
Volume resistivity	DIN IEC 93	Ω cm	2×10^{14}
Compression set	DIN ISO 815, B		
22 h @ 120°C, 25 % deflection		%	46
24 h @ 100°C, 25 % deflection		%	27
Air aging, 72 h @ 135°C	**DIN 53508**		
Hardness		Shore A	77
Modulus 100 %		MPa	6.5
Modulus 300 %		MPa	11.3
Tensile strength		MPa	11.3
Elongation at break		%	330
Rebound		%	54
Tear resistance	DIN ISO 34-1, A	N/mm	8.4
Δ Hardness		Shore A	+6
Δ Modulus 100 %		%	+58
Δ Modulus 300 %		%	+57
Δ Tensile strength		%	+6
Δ Elongation at break		%, rel.	-35
Δ Rebound		%, rel.	+2
Δ Tear resistance		%	-53

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