

Guide formulation - page 1 of 2

**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/cm ³	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

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**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 x 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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