

Vistalon™ 7001 EPDM rubber steam-cured hydraulic hose cover – 70 Shore A

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Model formulation	Phr ¹
Vistalon™ 7001	100
Carbon black N762	75
Carbon black N660	100
Kaolin clay	90
IPOLE 201 paraffinic oil	130
PEG 4000	2.0
Zinc oxide	5.0
Stearic acid	1.0
Sulfur	2.0
MBT	1.5
TBzTD	2.0
ZBPD (75%)	2.0
ZBEC	1.0
Total (phr)	511.5

¹ Parts per hundred dry rubber.

Rheology	Test methods (based on)	Unit	Typical values*
Mooney viscosity, ML (1+4), 100°C	ASTM D1646	MU	30
Mooney scorch, 125°C	ASTM D1646		
t5		minutes	5.1
Rheometer (MDR), 180°C, 0.5 degree arc	ASTM D5289		
ML		dN/m	0.9
MH		dN/m	15.0
ts2		minutes	0.5
t90		minutes	4.4

* Values given are typical and should not be interpreted as a specification.

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Properties	Test methods (based on)	Unit	Typical values*
Physical properties, cured t90 + 2 minutes at 180°C			
Hardness (3 seconds)	ASTM D2240	Shore A	70
100% modulus	ASTM D412	MPa	3.2
Tensile strength	ASTM D412	MPa	9.9
Elongation at break	ASTM D412	%	370
Tear strength, die B	ASTM D624	N/mm	33
Hot air aging, 7 days at 100°C			
Hardness (3 seconds)	ASTM D2240	Shore A	75
100% modulus	ASTM D412	MPa	5.7
Tensile strength	ASTM D412	MPa	10.9
Elongation at break	ASTM D412	%	200
Compression set, cured t90 + 5 minutes at 180°C			
25% deflection, 22 hours at 70°C	ASTM D395-B	%	19

* Values given are typical and should not be interpreted as a specification.

Vistalon™ EPDM rubber compounds offer efficient mixing and good heat aging properties for both automotive and industrial hose applications. For detailed product information, please consult the individual grade datasheets available at vistalon.com.

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