

Vistalon™ 6602 EPDM rubber sulfur-cured coolant hose – 65 Shore A

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Model formulation	Phr ¹
Vistalon™ 6602	100
Carbon black N550	120
IPOL 201 paraffinic oil	60
Zinc oxide	5.0
Steric acid	1.5
Structol™ WB16	3.0
TMDQ	1.5
Finalization	
Sulfur	0.5
TMTD	2.0
DTDM	2.0
ZnMDC	0.9
ZDBDC - Butyl Zimate™	0.9
Ni BDC (NBC)	0.9
Total (phr)	298.2

¹ Parts per hundred dry rubber.

Rheology	Test methods (based on)	Unit	Typical values*
Mooney viscosity, ML (1+4), 100°C	ASTM D1646	MU	79
Mooney scorch, 125°C	ASTM D1646		
t5		minutes	13.4
Rheometer (MDR), 180°C, 0.5 degree arc	ASTM D5289		
ML		dN/m	2.0
MH		dN/m	19.0
ts2		minutes	1.7
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 + 5 minutes at 170°C			
Hardness (3 seconds)	ASTM D2240	Shore A	71
100% modulus	ASTM D412	MPa	4.0
Tensile strength	ASTM D412	MPa	12.0
Elongation at break	ASTM D412	%	390
Hot air aging, 7 days at 125°C			
Hardness (3 seconds)	ASTM D2240	Shore A	75
100% modulus	ASTM D412	MPa	6.3
Tensile strength	ASTM D412	MPa	12.6
Elongation at break	ASTM D412	%	230
Oil aging, ASTM 2 oil, 24 hours at 100°C			
Hardness (3 seconds)	ASTM D2240	Shore A	44
Tensile strength	ASTM D412	MPa	8.2
Elongation at break	ASTM D412	%	240
Compression set, cured t90 + 5 minutes at 170°C			
50% deflection, 24 hours at 125°C	ASTM D395-B	%	51

* 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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