

Vistalon™ 6602 EPDM rubber peroxide-cured hose – 70 Shore A

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Model formulation	Phr ¹
Vistalon™ 6602	100
Carbon black N550	110
Paraffinic oil	45
TMDQ	1.5
Luperox™ F40	7.0
EGDMA	2.0
Total (phr)	265.5

¹ Parts per hundred dry rubber.

Rheology	Test methods (based on)	Unit	Typical values*
Mooney viscosity, ML (1+4), 100°C	ASTM D1646	MU	114
Mooney scorch, 125°C	ASTM D1646		
t5		minutes	12.5
Rheometer (MDR), 180°C, 0.5 degree arc	ASTM D5289		
ML		dN/m	3.1
MH		dN/m	21.5
ts2		minutes	0.7
t90		minutes	4.6

* 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	68
100% modulus	ASTM D412	MPa	4.1
Tensile strength	ASTM D412	MPa	14.8
Elongation at break	ASTM D412	%	310
Hot air aging, 7 days at 150°C			
Hardness (3 seconds)	ASTM D2240	Shore A	75
100% modulus	ASTM D412	MPa	4.9
Tensile strength	ASTM D412	MPa	13.8
Elongation at break	ASTM D412	%	240
Hot air aging, 14 days at 150°C			
Hardness (3 seconds)	ASTM D2240	Shore A	80
100% modulus	ASTM D412	MPa	7.5
Tensile strength	ASTM D412	MPa	12.7
Elongation at break	ASTM D412	%	160
Hot air aging, 94 hours at 160°C			
Hardness (3 seconds)	ASTM D2240	Shore A	76
100% modulus	ASTM D412	MPa	5.5
Tensile strength	ASTM D412	MPa	12.3
Elongation at break	ASTM D412	%	190
Oil aging, ASTM 2 oil, 24 hours at 100°C			
Hardness (3 seconds)	ASTM D2240	Shore A	44
100% modulus	ASTM D412	MPa	5.2
Tensile strength	ASTM D412	MPa	11.0
Elongation at break	ASTM D412	%	180
Compression set, cured t90 + 5 minutes at 180°C			
25% deflection, 22 hours at 150°C	ASTM D395-B	%	11
25% deflection, 70 hours at 160°C		%	12

* 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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