

Vistalon™ 7500 / 3666 EPDM rubber peroxide-cured hose – 65 Shore A

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Model formulation	Phr ¹
Vistalon™ 7500	70
Vistalon 3666	52.5
Durex™ O carbon black	110
Flexon™ 815 paraffinic oil	23
Maglite™ D magnesium oxide	5.0
TMQ	2.0
Sartomer™ SR-350	1.0
Perkadox™ 14-40	9.0
Total (phr)	272.5

¹ Parts per hundred dry rubber.

Rheology	Test methods (based on)	Unit	Typical values*
Mooney viscosity, ML (1+4), 100°C	ASTM D1646	MU	111
Mooney scorch, 125°C	ASTM D1646		
t5		minutes	16
Rheometer (MDR), 180°C, 0.5 degree arc	ASTM D5289		
ML		dN/m	3.4
MH		dN/m	22.3
ts2		minutes	0.5
t90		minutes	5.0

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

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peroxide-cured hose – 65 Shore A**

Properties	Test methods (based on)	Unit	Typical values*
Physical properties, cured 7 minutes at 180°C			
Hardness (3 seconds)	ASTM D2240	Shore A	69
100% modulus	ASTM D412	MPa	4
Tensile strength	ASTM D412	MPa	11
Elongation at break	ASTM D412	%	360
Green tear strength, die C	ASTM D624	kN/m	10
Tear resistance	DIN 53507A	kN/m	8
Hot air aging, 4 days at 160°C			
Change in hardness (3 seconds)	ASTM D2240	Shore A	7
Change in 100% modulus	ASTM D412	%	24
Change in tensile strength	ASTM D412	%	5
Change in elongation at break	ASTM D412	%	-24
Hot air aging, 14 days at 150°C			
Change in hardness (3 seconds)	ASTM D2240	Shore A	11
Change in 100% modulus	ASTM D412	%	54
Change in tensile strength	ASTM D412	%	3
Change in elongation at break	ASTM D412	%	-44
Oil aging, ASTM 2 oil, 24 hours at 100°C			
Change in hardness (3 seconds)	ASTM D2240	Shore A	-18
Change in 100% modulus	ASTM D412	%	2
Change in tensile strength	ASTM D412	%	-34
Change in elongation at break	ASTM D412	%	-33
Change in volume	ASTM D471	%	77
Change in weight	ASTM D471	%	60
Compression set, cured 10 minutes at 180°C			
25% deflection, 70 hours at 100°C	ASTM D395-B	%	9
25% deflection, 70 hours at 150°C		%	20
50% deflection, 22 hours at 160°C	P-VW-3307	%	49

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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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