

Vistalon™ 3666 EPDM rubber steam-cured, oil-exposed hose cover – 75 Shore A

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Model formulation	Phr ¹
Vistalon™ 3666	175
Carbon black N765 SRF HS	250
IPOL 201 paraffinic oil	75
Zinc oxide	10
Stearic acid	2.0
Sulfur	0.7
TMTDS (80%)	2.5
DTDM (80%)	1.7
ZDBDC (80%)	2.5
ZDMDC (80%)	2.5
Total (phr)	521.9

¹ Parts per hundred dry rubber.

Rheology	Test methods (based on)	Unit	Typical values*
Rheometer (ODR), 180°C, 3 degree arc	ASTM D2084		
ML		dN/m	15
MH		dN/m	80
ts2		minutes	1
t90		minutes	3.2

* 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 5 minutes at 180°C			
Hardness (3 seconds)	ASTM D2240	Shore A	77
100% modulus	ASTM D412	MPa	7.3
Tensile strength	ASTM D412	MPa	10.1
Elongation at break	ASTM D412	%	200
Oil aging, ASTM 1 oil, 70 hours at 100°C			
Change in hardness	ASTM D412	Shore A	-19
Change in tensile strength	ASTM D412	%	+2
Change in elongation	ASTM D412	%	+15
Change in volume	ASTM D471	%	+30
Oil aging, ASTM 3 oil, 70 hours at 100°C			
Change in hardness	ASTM D412	Shore A	-28
Change in tensile strength	ASTM D412	%	-2
Change in elongation	ASTM D412	%	0
Change in volume	ASTM D471	%	+55
Compression set, cured 5 minutes at 180°C (plied)			
25% deflection, 22 hours at 70°C		%	24
25% deflection, 22 hours at 100°C		%	37

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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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