

Vistalon™ 1703 EPDM rubber

High performance medium voltage insulation – 90 Shore A

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Model formulation	Phr ¹
Vistalon™ 1703P	100
Translink™ 37 clay	60
TMQ	1.5
Vinyltris(2-methoxyethoxy) silane	1.0
Zinc oxide	5.0
ERD 90 (red lead)	5.0
Paraffin wax	5.0
Escorene™ LD 400 (LDPE)	5.0
Di-Cup™ 40KE	6.5
Total (phr)	189.0

¹ Parts per hundred dry rubber.

Rheology	Test methods (based on)	Unit	Typical values*
Mooney viscosity, ML (1+4), 125°C	ASTM D1646	MU	26
Mooney scorch, 132°C	ASTM D1646		
t3		minutes	31.1
Rheometer (ODR), 200°C, 6 minutes, 3 degree arc	ASTM D2084		
ML		dN/m	6.2
MH		dN/m	75.2
ts2		minutes	0.8
t90		minutes	2.0

* 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 20 minutes at 165°C			
Hardness (3 seconds)	ASTM D2240	Shore A	88
100% modulus	ASTM D412	MPa	5.8
Tensile strength	ASTM D412	MPa	9.5
Elongation at break	ASTM D412	%	320
Hot air aging, 14 days at 150°C			
Hardness (3 seconds)	ASTM D2240	Shore A	86
100% modulus	ASTM D412	MPa	6.0
Tensile strength	ASTM D412	MPa	8.9
Elongation at break	ASTM D412	%	260

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

Vistalon EPDM rubber provides easy processing with excellent electrical properties for flexible low- and medium-voltage cables. For detailed product information, please consult the individual grade datasheets available at vistalon.com.

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