

Vistalon™ 2502 EPDM rubber molded mechanical goods - 70 Shore A

Energy lives here™

Model formulation	Phr ¹
Vistalon™ 2502	100
N-550 FEF	130
Flexon™ 876 paraffinic oil	70
Stearic acid	1.0
ZnO (red seal)	5.0
Sulfur	0.1
Finalization	
Sulfur	1.0
ZBEC (70%)	1.5
MBTS (80%)	1.5
Rhenocure™ ZAT (70%)	1.1
Rhenocure™ TP/G (50%)	1.8
Total (phr)	313.0

¹ Parts per hundred dry rubber.

Rheology	Test methods (based on)	Unit	Typical values*
Mooney viscosity, ML (1+4), 100°C	ASTM D1646	MU	47
Mooney scorch, 125°C	ASTM D1646		
t5		minutes	11.9
Rheometer (MDR), 180°C, 0.5 degree arc	ASTM D5289		
ML		dN/m	1.5
MH		dN/m	15.5
ts2		minutes	0.7
t90		minutes	3.8

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

**Vistalon™ 2502 EPDM rubber
molded mechanical goods - 70 Shore A**

Properties	Test methods (based on)	Unit	Typical values*
Physical properties, cured 5.5 minutes at 180°C			
Hardness (3 seconds)	ASTM D2240	Shore A	69
100% modulus	ASTM D412	MPa	3.2
Tensile strength	ASTM D412	MPa	10.7
Elongation at break	ASTM D412	%	430
Tear resistance	DIN 53507A	kN/m	10
Hot air aging, 7 days at 70°C			
	ASTM D572		
Hardness (3 seconds)	ASTM D2240	Shore A	72
100% modulus	ASTM D412	MPa	4.4
Tensile strength	ASTM D412	MPa	12.0
Elongation at break	ASTM D412	%	355
Fluid aging, DOT4, 7 days at 130°C			
	ASTM D471		
Hardness (3 seconds)	ASTM D2240	Shore A	55
100% modulus	ASTM D412	MPa	2.0
Tensile strength	ASTM D412	MPa	14.2
Elongation at break	ASTM D412	%	340
Change in volume	ASTM D471	%	2.3
Compression set, cured 8 minutes at 180°C			
	ASTM D395-B		
25% compression, 22 hours at -40°C		%	93
25% compression, 22 hours at -20°C		%	57
25% compression, 22 hours at 23°C		%	9
25% compression, 22 hours at 70°C		%	23

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

Vistalon™ EPDM rubber compounds offer efficient mixing and good physical properties for molded mechanical goods. For detailed product information, please consult the individual grade datasheets available at vistalon.com.

©2016 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Chemical" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

Contact your ExxonMobil Chemical representative for more information:
vistalon.com

S0316-092E50 Eclipse 041200802

ExxonMobil
Energy lives here™