

Aearo E-A-R Specialty Composites VersaDamp™ V-2590 TPE

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

Material Notes:

VersaDamp TPEs are olefinic dynamic vulcanizates. The VersaDamp 2000 series materials provide predictable damping performance throughout a broad range of temperatures. They can be injection molded into a wide variety of standard or custom isolators, including grommets, equipment mounts, bumpers, and gaskets. They feature high internal damping properties for low amplification at resonance to protect equipment during frequency cycling and random shocks, effective shock protection for sensitive mechanisms within minimum sway parameters, and quick return to equilibrium after vibrations or shocks. Information provided by Aearo E-A-R Specialty Composites.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aearo-E-A-R-Specialty-Composites-VersaDamp-V-2590-TPE.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	57	57	5 sec.; ASTM D2240
Tensile Strength at Break	4.50 MPa	653 psi	ASTM D412
Elongation at Break	344 %	344 %	ASTM D412
Tensile Modulus	0.00183 GPa	0.265 ksi	ASTM D412
Compressive Yield Strength	0.170 MPa	24.7 psi	Compressive Load Deflection at 5%; ASTM D575
	0.370 MPa	53.7 psi	Compressive Load Deflection at 10%; ASTM D575
	0.560 MPa	81.2 psi	Compressive Load Deflection at 15%; ASTM D575
	0.790 MPa	115 psi	Compressive Load Deflection at 20%; ASTM D575
	1.12 MPa	162 psi	Compressive Load Deflection at 25%; ASTM D575
Compressive Modulus	0.00400 GPa	0.580 ksi	at 15% Compression; ASTM D575
Resilience	12	12	% Bashore Rebound; 22°C; ASTM D2632
	37	37	% Bashore Rebound; 70°C; ASTM D2632
Tear Strength	23.1 kN/m	132 pli	ASTM D624
Compression Set	7.0 %	7.0 %	24 hour at 20°C; ASTM D395B
	14.9 %	14.9 %	1/2 hour at 20°C; ASTM D395B

Thermal Properties	Metric	English	Comments
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Maximum Service Temperature, Air Thermal Properties	100 °C Metric	212 °F English	Continuous Comments
	125 °C	257 °F	Intermittent
Brittleness Temperature	-40.0 °C	-40.0 °F	ASTM D2137
Glass Transition Temp, Tg	-58.0 °C	-72.4 °F	DMA @ 10 Hz; ASTM D2240
Flammability, UL94	HB	HB	Meets HBF

Electrical Properties	Metric	English	Comments
Electrical Resistivity	5.30e+15 ohm-cm	5.30e+15 ohm-cm	ASTM D257

Descriptive Properties	Value	Comments
Bacterial Resistance	Meets	ASTM G21
Damping T max	6 dB	
Fungal Resistance	Meets	ASTM G22
Heat Aging; 100°C	Excellent	
MVSS 302 Flammability	Passes	
Ozone Resistance	No Cracking	ASTM D1149-91
Relative Peak Transmissibility	7.1 dB	G-411 Grommet; 1.2lb load @ 20°C

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