

Aearo E-A-R Specialty Composites VersaDamp™ V-2550 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-2550-TPE.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	57	57	5 sec.; ASTM D2240
Tensile Strength at Break	4.32 MPa	627 psi	ASTM D412
Elongation at Break	310 %	310 %	ASTM D412
Tensile Modulus	0.00217 GPa	0.315 ksi	ASTM D412
Compressive Yield Strength	0.150 MPa	21.8 psi	Compressive Load Deflection at 5%; ASTM D575
	0.370 MPa	53.7 psi	Compressive Load Deflection at 10%; ASTM D575
	0.570 MPa	82.7 psi	Compressive Load Deflection at 15%; ASTM D575
	0.810 MPa	117 psi	Compressive Load Deflection at 20%; ASTM D575
	1.14 MPa	165 psi	Compressive Load Deflection at 25%; ASTM D575
Compressive Modulus	0.00400 GPa	0.580 ksi	at 15% Compression; ASTM D575
Resilience	26	26	% Bashore Rebound; 22°C; ASTM D2632
	48	48	% Bashore Rebound; 70°C; ASTM D2632
Tear Strength	21.7 kN/m	124 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	393	393	H22 Wheel; ASTM D3389
Compression Set	4.9 %	4.9 %	24 hour at 20°C; ASTM D395B
	13.8 %	13.8 %	1/2 hour at 20°C; ASTM D395B

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 °C	212 °F	Continuous
	125 °C	257 °F	Intermittent
Brittleness Temperature	-54.0 °C	-65.2 °F	ASTM D2137
Glass Transition Temp, Tg	-64.0 °C	-83.2 °F	DMA @ 10 Hz; ASTM D2240
Flammability, UL94	HB	HB	Meets HBF

Descriptive Properties	Value	Comments
Bacterial Resistance	Meets	ASTM G21
Fungal Resistance	Meets	ASTM G22
MVSS 302 Flammability	Passes	
Ozone Resistance	No Cracking	ASTM D1149-91
Relative Peak Transmissibility	11.1 dB	G-411 Grommet; 1.2lb load @ 20°C

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