

Aearo E-A-R Specialty Composites VersaDamp™ V-2750 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-2750-TPE.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	5 sec.; ASTM D2240
Tensile Strength at Break	6.23 MPa	903 psi	ASTM D412
Elongation at Break	343 %	343 %	ASTM D412
Tensile Modulus	0.00329 GPa	0.477 ksi	ASTM D412
Compressive Yield Strength	0.340 MPa	49.3 psi	Compressive Load Deflection at 5%; ASTM D575
	0.650 MPa	94.3 psi	Compressive Load Deflection at 10%; ASTM D575
	0.950 MPa	138 psi	Compressive Load Deflection at 15%; ASTM D575
	1.35 MPa	196 psi	Compressive Load Deflection at 20%; ASTM D575
	1.85 MPa	268 psi	Compressive Load Deflection at 25%; ASTM D575
Compressive Modulus	0.00580 GPa	0.841 ksi	at 15% Compression; ASTM D575
Resilience	27	27	% Bashore Rebound; 22°C; ASTM D2632
	49	49	% Bashore Rebound; 70°C; ASTM D2632
Tear Strength	22.8 kN/m	130 pli	ASTM D624
Compression Set	14.9 %	14.9 %	24 hour at 20°C; ASTM D395B
	20.5 %	20.5 %	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
Flammability, UL94	HB	HB	Meets HBF

Descriptive Properties	Value	Comments
MVSS 302 Flammability	Passes	
Relative Peak Transmissibility	9.7 dB	G-411 Grommet; 1.2lb load @ 20°C

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