

Zotefoams Evazote® EV50 Ethylene Vinyl Acetate Copolymer Foam

Category : Polymer , Thermoplastic , Ethylene Vinyl Acetate

Material Notes:

Evazote® is a closed cell, cross-linked EVA copolymer foam manufactured using nitrogen expansion technology to produce foams with exceptional cell size uniformity, low odor / high purity and outstanding physical attributes. Information provided by Zotefoams

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zotefoams-Evazote-EV50-Ethylene-Vinyl-Acetate-Copolymer-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0410 - 0.0540 g/cc	0.00148 - 0.00195 lb/in³	sheet density
	0.0500 g/cc	0.00181 lb/in³	Nominal skin/skin; BS ISO 7214 1998
Cell Length	0.350 mm	0.0138 in	Typical Diameter
	0.250 - 0.600 mm	0.00984 - 0.0236 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	47	47	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.840 MPa	122 psi	ISO 7214 1998
Elongation at Break	245 %	245 %	
Compressive Yield Strength	0.0300 MPa	4.35 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.0510 MPa	7.40 psi	BS ISO 7214 1998
	@Strain 25.0 %	@Strain 25.0 %	
	0.0820 MPa	11.9 psi	BS ISO 7214 1998
	@Strain 40.0 %	@Strain 40.0 %	
	0.115 MPa	16.7 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Tear Strength	1.055 kN/m	6.020 pli	BS EN ISO 8067 1995
Compression Set	3.0 %	3.0 %	24 hr recovery; BS ISO 7214 1998
	@Time 79200 sec, Strain 25.0 %	@Time 22.0 hour, Strain 25.0 %	
	10.5 %	10.5 %	0.5 hr recovery; BS ISO 7214 1998
	@Time 79200 sec,	@Time 22.0 hour,	

Mechanical Properties	Strain 25.0 % Metric	Strain 25.0 % English	Comments
	13 %	13 %	
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	24 hr recovery; BS ISO 7214 1998
	23.5 %	23.5 %	
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	0.5 hr recovery; BS ISO 7214 1998

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0404 W/m-K	0.280 BTU-in/hr-ft ² -°F	mean temp of 10°C; ISO 8302 1991
Maximum Service Temperature, Air	65.0 °C	149 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Flammability Test	0.80	0.80	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 13.0 mm	@Thickness 0.512 in	
	1.0	1.0	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 5.00 mm	@Thickness 0.197 in	
Shrinkage	3.0 %	3.0 %	
	@Temperature 70.0 °C, Time 3600 sec	@Temperature 158 °F, Time 1.00 hour	
	3.5 %	3.5 %	
	@Temperature 70.0 °C, Time 360000 sec	@Temperature 158 °F, Time 100 hour	
	4.0 %	4.0 %	
	@Temperature 70.0 °C, Time 3.60e+6 sec	@Temperature 158 °F, Time 1000 hour	
	6.5 %	6.5 %	
	@Temperature 80.0 °C, Time 3600 sec	@Temperature 176 °F, Time 1.00 hour	
	10 %	10 %	
	@Temperature 80.0 °C, Time 36000 sec	@Temperature 176 °F, Time 10.0 hour	
	12.5 %	12.5 %	
	@Temperature 80.0 °C, Time 180000 sec	@Temperature 176 °F, Time 50.0 hour	

Descriptive Properties	Value	Comments
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Flammability Descriptive Properties	Automotive: FMVSS 302 burn rate Value	Pass: 4mm and thicker Comments
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