

Zotefoams Evazote® VA35 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. Compliant with EC food contact and US FDA regulations. Information provided by Zotefoams

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zotefoams-Evazote-VA35-Ethylene-Vinyl-Acetate-Copolymer-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0290 - 0.0390 g/cc	0.00105 - 0.00141 lb/in ³	sheet density
	0.0350 g/cc	0.00126 lb/in ³	Nominal skin/skin; BS ISO 7214 1998
Cell Length	0.450 mm	0.0177 in	Typical Diameter
	0.300 - 0.700 mm	0.0118 - 0.0276 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	48	48	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.615 MPa	89.2 psi	ISO 7214 1998
Elongation at Break	180 %	180 %	
Compressive Yield Strength	0.0310 MPa	4.50 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	@Strain 40.0 %	11.9 psi	BS ISO 7214 1998
0.114 MPa	@Strain 50.0 %	16.5 psi	BS ISO 7214 1998
Tear Strength	0.730 kN/m	4.17 pli	BS EN ISO 8067 1995
Compression Set	3.5 %	3.5 %	24 hr recovery; BS ISO 7214 1998
	@Time 79200 sec, Strain 25.0 %	@Time 22.0 hour, Strain 25.0 %	
	11 %	11 %	

Mechanical Properties	Metric	English	Comments
	@Time 79200 sec, Strain 25.0 %	@Time 22.0 hour, Strain 25.0 %	0.5 hr recovery; BS ISO 7214 1998
	15 %	15 %	
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	24 hr recovery; BS ISO 7214 1998
	25 %	25 %	
	@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	0.0394 W/m-K	0.273 BTU-in/hr-ft ² -°F	mean temp of 10°C; ISO 8302 1991
Maximum Service Temperature, Air	75.0 °C	167 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Flammability Test	1.1	1.1	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 13.0 mm	@Thickness 0.512 in	
	1.6	1.6	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 5.00 mm	@Thickness 0.197 in	

Descriptive Properties	Value	Comments
Flammability	Automotive: FMVSS.302 burn rate	Pass: 5mm and thicker

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