

Zotefoams Evazote® EV45CN Conductive 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-EV45CN-Conductive-Ethylene-Vinyl-Acetate-Copolymer-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0370 - 0.0490 g/cc	0.00134 - 0.00177 lb/in ³	sheet density
	0.0450 g/cc	0.00163 lb/in ³	Nominal skin/skin; BS ISO 7214 1998
Cell Length	0.200 - 0.600 mm	0.00787 - 0.0236 in	
	0.400 mm	0.0157 in	Typical Diameter

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	52	52	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.575 MPa	83.4 psi	ISO 7214 1998
Elongation at Break	170 %	170 %	
Compressive Yield Strength	0.0400 MPa	5.80 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.0610 MPa	8.85 psi	
	@Strain 25.0 %	@Strain 25.0 %	BS ISO 7214 1998
	0.0940 MPa	13.6 psi	BS ISO 7214 1998
	@Strain 40.0 %	@Strain 40.0 %	
	0.128 MPa	18.6 psi	BS ISO 7214 1998
		@Strain 50.0 %	
Tear Strength	1.24 kN/m	7.08 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 %	
	9.5 %	9.5 %	

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
	14.5 %	14.5 %	
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	24 hr recovery; BS ISO 7214 1998
	22 %	22 %	
	@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	0.0380 W/m-K	0.264 BTU-in/hr-ft ² -°F	mean temp of 10°C; ISO 8302 1991
Maximum Service Temperature, Air	70.0 °C	158 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Flammability Test	0.70	0.70	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 13.0 mm	@Thickness 0.512 in	
	1.3	1.3	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 5.00 mm	@Thickness 0.197 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 ohm-cm	1000 ohm-cm	ASTM D991-89

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

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