

Zotefoams Plastazote® MP33 Metallocene Polyethylene Foam

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE

Material Notes:

Plastazote® is a closed cell, cross-linked polyethylene 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 regulations. Information provided by Zotefoams

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zotefoams-Plastazote-MP33-Metallocene-Polyethylene-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0330 g/cc	0.00119 lb/in ³	Nominal skin/skin; BS ISO 7214 1998
	0.0280 - 0.0400 g/cc	0.00101 - 0.00145 lb/in ³	sheet density
Cell Length	0.150 - 0.500 mm	0.00591 - 0.0197 in	
	0.350 mm	0.0138 in	Typical Diameter

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	55	55	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.875 MPa	127 psi	ISO 7214 1998
Elongation at Break	190 %	190 %	
Compressive Yield Strength	0.0520 MPa @Strain 10.0 %	7.54 psi @Strain 10.0 %	BS ISO 7214 1998
	0.0700 MPa @Strain 25.0 %	10.2 psi @Strain 25.0 %	BS ISO 7214 1998
	0.102 MPa @Strain 40.0 %	14.8 psi @Strain 40.0 %	BS ISO 7214 1998
	0.136 MPa @Strain 50.0 %	19.7 psi @Strain 50.0 %	BS ISO 7214 1998
Tear Strength	1.00 kN/m	5.71 pli	BS EN ISO 8067 1995
Compression Set	3.0 % @Time 79200 sec, Strain 25.0 %	3.0 % @Time 22.0 hour, Strain 25.0 %	24 hr recovery; BS ISO 7214 1998
	7.5 %	7.5 %	

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
	11 %	11 %	
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	24 hr recovery; BS ISO 7214 1998
	22.5 %	22.5 %	
	@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	0.0390 W/m-K	0.271 BTU-in/hr-ft ² -°F	mean temp of 10°C; ISO 8302 1991
Maximum Service Temperature, Air	100 °C	212 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Flammability Test	1.2	1.2	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 13.0 mm	@Thickness 0.512 in	
	1.7	1.7	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: 6mm and thicker

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