

Zotefoams Plastazote® MP45 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. Information provided by Zotefoams

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zotefoams-Plastazote-MP45-Metallocene-Polyethylene-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0380 - 0.0490 g/cc	0.00137 - 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	0.150 - 0.500 mm	0.00591 - 0.0197 in	
	0.400 mm	0.0157 in	Typical Diameter

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	60	60	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	1.12 MPa	162 psi	ISO 7214 1998
Elongation at Break	225 %	225 %	
Compressive Yield Strength	0.0680 MPa	9.86 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.0850 MPa	12.3 psi	BS ISO 7214 1998
	@Strain 25.0 %	@Strain 25.0 %	
0.117 MPa	17.0 psi	BS ISO 7214 1998	
@Strain 40.0 %	@Strain 40.0 %		
0.152 MPa	22.0 psi	BS ISO 7214 1998	
@Strain 50.0 %	@Strain 50.0 %		
Tear Strength	1.70 kN/m	9.70 pli	BS EN ISO 8067 1995
Compression Set	2.5 %	2.5 %	24 hr recovery; BS ISO 7214 1998
	@Time 79200 sec, Strain 25.0 %	@Time 22.0 hour, Strain 25.0 %	
6.5 %	6.5 %	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
	9.0 %	9.0 %	
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	24 hr recovery; BS ISO 7214 1998
	18.5 %	18.5 %	
	@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	0.0430 W/m-K	0.298 BTU-in/hr-ft ² -°F	mean temp of 10°C; ISO 8302 1991
Maximum Service Temperature, Air	105 °C	221 °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	
	1.5	1.5	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: 4mm and thicker

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