

Zotefoams Plastazote® MP24 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-MP24-Metallocene-Polyethylene-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0170 - 0.0290 g/cc	0.000614 - 0.00105 lb/in ³	sheet density
	0.0240 g/cc	0.000867 lb/in ³	Nominal skin/skin; BS ISO 7214 1998
Cell Length	0.100 - 0.300 mm	0.00394 - 0.0118 in	
	0.200 mm	0.00787 in	Typical Diameter

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	36	36	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.590 MPa	85.6 psi	ISO 7214 1998
Elongation at Break	140 %	140 %	
Compressive Yield Strength	0.0310 MPa	4.50 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.0500 MPa	7.25 psi	
	@Strain 25.0 %	@Strain 25.0 %	BS ISO 7214 1998
	0.0800 MPa	11.6 psi	BS ISO 7214 1998
@Strain 40.0 %	@Strain 40.0 %		
	0.110 MPa	16.0 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Tear Strength	0.700 kN/m	3.99 pli	BS EN ISO 8067 1995
Compression Set	4.5 %	4.5 %	24 hr recovery; BS ISO 7214 1998
	@Time 79200 sec, Strain 25.0 %	@Time 22.0 hour, Strain 25.0 %	
	12 %	12 %	

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
	19.5 %	19.5 %	
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	24 hr recovery; BS ISO 7214 1998
	28 %	28 %	
	@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	95.0 °C	203 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Flammability Test	1.9	1.9	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 13.0 mm	@Thickness 0.512 in	
	2.5	2.5	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: 8mm and thicker

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