

Zotefoams Plastazote® LD24MC Low Density Polyethylene Foam, Medium Cell

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 and US FDA regulations. Information provided by Zotefoams

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zotefoams-Plastazote-LD24MC-Low-Density-Polyethylene-Foam-Medium-Cell.php

Physical Properties	Metric	English	Comments
Density	0.0190 - 0.0250 g/cc	0.000686 - 0.000903 lb/in ³	sheet density
	0.0240 g/cc	0.000867 lb/in ³	Nominal skin/skin; BS ISO 7214 1998
Cell Length	0.300 - 0.700 mm	0.0118 - 0.0276 in	
	0.500 mm	0.0197 in	Typical Diameter

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	49	49	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.325 MPa	47.1 psi	ISO 7214 1998
Elongation at Break	120 %	120 %	
Compressive Yield Strength	0.0330 MPa	4.79 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.0520 MPa	7.54 psi	
	@Strain 25.0 %	@Strain 25.0 %	BS ISO 7214 1998
	0.0840 MPa	12.2 psi	BS ISO 7214 1998
	@Strain 40.0 %	@Strain 40.0 %	
	0.116 MPa	16.8 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Tear Strength	0.480 kN/m	2.74 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 %	
	13 %	13 %	

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
	18 %	18 %	
	@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
Maximum Service Temperature, Air	100 °C	212 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Flammability Test	1.5	1.5	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 13.0 mm	@Thickness 0.512 in	
	2.1	2.1	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 5.00 mm	@Thickness 0.197 in	

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