

Zotefoams Plastazote® LD18 Low Density 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 and US FDA regulations. Information provided by Zotefoams

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zotefoams-Plastazote-LD18-Low-Density-Polyethylene-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0180 g/cc	0.000650 lb/in ³	Nominal skin/skin; BS ISO 7214 1998
	0.0180 - 0.0240 g/cc	0.000650 - 0.000867 lb/in ³	sheet density
Cell Length	0.500 - 1.00 mm	0.0197 - 0.0394 in	
	0.800 mm	0.0315 in	Typical Diameter

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	50	50	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.300 MPa	43.5 psi	ISO 7214 1998
Elongation at Break	125 %	125 %	
Compressive Yield Strength	0.0330 MPa	4.79 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.0500 MPa	7.25 psi	BS ISO 7214 1998
	@Strain 25.0 %	@Strain 25.0 %	
Compressive Yield Strength	0.0810 MPa	11.7 psi	BS ISO 7214 1998
	@Strain 40.0 %	@Strain 40.0 %	
Compressive Yield Strength	0.113 MPa	16.4 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Tear Strength	0.520 kN/m	2.97 pli	BS EN ISO 8067 1995
Compression Set	5.5 %	5.5 %	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
	18.5 %	18.5 %	
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	24 hr recovery; BS ISO 7214 1998
	27.5 %	27.5 %	
	@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	0.0446 W/m-K	0.310 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	1.7	1.7	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 13.0 mm	@Thickness 0.512 in	
	2.2	2.2	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 5.00 mm	@Thickness 0.197 in	

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