

Zotefoams Plastazote® LD29 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-LD29-Low-Density-Polyethylene-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0250 - 0.0330 g/cc	0.000903 - 0.00119 lb/in ³	sheet density
	0.0290 g/cc	0.00105 lb/in ³	Nominal skin/skin; BS ISO 7214 1998
Cell Length	0.400 - 0.900 mm	0.0157 - 0.0354 in	
	0.650 mm	0.0256 in	Typical Diameter

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	53	53	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.375 MPa	54.4 psi	ISO 7214 1998
Elongation at Break	140 %	140 %	
Compressive Yield Strength	0.0470 MPa	6.82 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.0640 MPa	9.28 psi	BS ISO 7214 1998
	@Strain 25.0 %	@Strain 25.0 %	
	0.0970 MPa	14.1 psi	BS ISO 7214 1998
	@Strain 40.0 %	@Strain 40.0 %	
	0.131 MPa	19.0 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Tear Strength	0.740 kN/m	4.22 pli	BS EN ISO 8067 1995
Compression Set	3.0 %	3.0 %	24 hr recovery; BS ISO 7214 1998
	@Time 79200 sec, Strain 25.0 %	@Time 22.0 hour, Strain 25.0 %	
	10.5 %	10.5 %	

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
	14 %	14 %	
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	24 hr recovery; BS ISO 7214 1998
	23.5 %	23.5 %	
	@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	

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