

Zotefoams Plastazote® LD15 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-LD15-Low-Density-Polyethylene-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0150 g/cc	0.000542 lb/in ³	Nominal skin/skin; BS ISO 7214 1998
	0.0140 - 0.0180 g/cc	0.000506 - 0.000650 lb/in ³	sheet density
Cell Length	0.380 mm	0.0150 in	Typical Diameter
	0.200 - 0.600 mm	0.00787 - 0.0236 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	43	43	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.245 MPa	35.5 psi	ISO 7214 1998
Elongation at Break	110 %	110 %	
Compressive Yield Strength	0.0260 MPa @Strain 10.0 %	3.77 psi @Strain 10.0 %	BS ISO 7214 1998
	0.0450 MPa @Strain 25.0 %	6.53 psi @Strain 25.0 %	BS ISO 7214 1998
	0.0750 MPa @Strain 40.0 %	10.9 psi @Strain 40.0 %	BS ISO 7214 1998
	0.107 MPa @Strain 50.0 %	15.5 psi @Strain 50.0 %	BS ISO 7214 1998
Tear Strength	0.330 kN/m	1.88 pli	BS EN ISO 8067 1995
Compression Set	7.0 % @Time 79200 sec, Strain 25.0 %	7.0 % @Time 22.0 hour, Strain 25.0 %	24 hr recovery; BS ISO 7214 1998
	15 %	15 %	

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
	23 %	23 %	
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	24 hr recovery; BS ISO 7214 1998
	31 %	31 %	
	@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	0.0387 W/m-K	0.269 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	2.8	2.8	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 13.0 mm	@Thickness 0.512 in	
	3.6	3.6	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 5.00 mm	@Thickness 0.197 in	

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