

Zotefoams Plastazote® LD60 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-LD60-Low-Density-Polyethylene-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0510 - 0.0660 g/cc	0.00184 - 0.00238 lb/in ³	sheet density
	0.0600 g/cc	0.00217 lb/in ³	Nominal skin/skin; BS ISO 7214 1998
Cell Length	0.600 mm	0.0236 in	Typical Diameter
	0.350 - 0.900 mm	0.0138 - 0.0354 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	70	70	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.650 MPa	94.3 psi	ISO 7214 1998
Elongation at Break	165 %	165 %	
Flexural Modulus	0.00170 GPa	0.247 ksi	BS4370, part 4, method 14
Compressive Yield Strength	0.110 MPa	16.0 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.125 MPa	18.1 psi	BS ISO 7214 1998
	@Strain 25.0 %	@Strain 25.0 %	
	0.164 MPa	23.8 psi	BS ISO 7214 1998
	@Strain 40.0 %	@Strain 40.0 %	
	0.208 MPa	30.2 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Tear Strength	1.72 kN/m	9.81 pli	BS EN ISO 8067 1995
Compression Set	2.0 %	2.0 %	24 hr recovery; BS ISO 7214 1998
	@Time 79200 sec, Strain 25.0 %	@Time 22.0 hour, Strain 25.0 %	

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
	6.5 %	6.5 %	
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	24 hr recovery; BS ISO 7214 1998
	14.5 %	14.5 %	
	@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	0.0518 W/m-K	0.359 BTU-in/hr-ft ² -°F	mean temp of 10°C; ISO 8302 1991
Maximum Service Temperature, Air	105 °C	221 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Flammability Test	0.50	0.50	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 13.0 mm	@Thickness 0.512 in	
	1.0	1.0	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 5.00 mm	@Thickness 0.197 in	

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