

Zotefoams Plastazote® LD70 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. Information provided by Zotefoams

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zotefoams-Plastazote-LD70-Low-Density-Polyethylene-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0600 - 0.0760 g/cc	0.00217 - 0.00275 lb/in ³	sheet density
	0.0700 g/cc	0.00253 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	74	74	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.740 MPa	107 psi	ISO 7214 1998
Elongation at Break	165 %	165 %	
Flexural Modulus	0.00270 GPa	0.392 ksi	BS4370, part 4, method 14
Compressive Yield Strength	0.146 MPa	21.2 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.158 MPa	22.9 psi	BS ISO 7214 1998
	@Strain 25.0 %	@Strain 25.0 %	
	0.198 MPa	28.7 psi	BS ISO 7214 1998
@Strain 40.0 %	@Strain 40.0 %		
Tear Strength	0.248 MPa	36.0 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Compression Set	2.075 kN/m	11.84 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	5.0 % Metric	5.0 % English	Comments 0.5 hr recovery; BS ISO 7214 1998
	@Time 79200 sec, Strain 25.0 %	@Time 22.0 hour, Strain 25.0 %	
	6.0 %	6.0 %	24 hr recovery; BS ISO 7214 1998
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	
	13 %	13 %	0.5 hr recovery; BS ISO 7214 1998
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0500 W/m-K	0.347 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	0.60	0.60	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	
Shrinkage	<= 1.0 %	<= 1.0 %	
	@Temperature 80.0 °C	@Temperature 176 °F	
	<= 2.0 %	<= 2.0 %	
	@Temperature 90.0 °C	@Temperature 194 °F	

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