

Zotefoams Plastazote® HD80 High Density Polyethylene Foam

Category : Polymer , Thermoplastic , Polyethylene (PE)

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-HD80-High-Density-Polyethylene-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0580 - 0.0870 g/cc	0.00210 - 0.00314 lb/in ³	sheet density
	0.0800 g/cc	0.00289 lb/in ³	Nominal skin/skin; BS ISO 7214 1998
Cell Length	0.600 mm	0.0236 in	Typical Diameter
	0.400 - 0.850 mm	0.0157 - 0.0335 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	81	81	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	2.09 MPa	303 psi	ISO 7214 1998
Elongation at Break	115 %	115 %	
Flexural Modulus	0.0150 GPa	2.18 ksi	BS4370, part 4, method 14
Compressive Yield Strength	0.426 MPa	61.8 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.523 MPa	75.9 psi	
	@Strain 25.0 %	@Strain 25.0 %	BS ISO 7214 1998
	0.530 MPa	76.9 psi	BS ISO 7214 1998
	@Strain 40.0 %	@Strain 40.0 %	
	0.593 MPa	86.0 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Tear Strength	4.97 kN/m	28.4 pli	BS EN ISO 8067 1995
Compression Set	7.0 %	7.0 %	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 50.0 %	@Time 22.0 hour, Strain 50.0 %	24 hr recovery; BS ISO 7214 1998
	13 %	13 %	
	@Time 79200 sec, Strain 25.0 %	@Time 22.0 hour, Strain 25.0 %	0.5 hr recovery; BS ISO 7214 1998
	21.5 %	21.5 %	
	@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	0.0630 W/m-K	0.437 BTU-in/hr-ft ² -°F	mean temp of 10°C; ISO 8302 1991
Maximum Service Temperature, Air	130 °C	266 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Flammability Test	0.40	0.40	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 13.0 mm	@Thickness 0.512 in	
	0.60	0.60	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 5.00 mm	@Thickness 0.197 in	

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