

Zotefoams Plastazote® LD15FM Low Density Polyethylene Foam, Flame Retarded

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-LD15FM-Low-Density-Polyethylene-Foam-Flame-Retarded.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 - 0.0190 g/cc	0.000506 - 0.000686 lb/in ³	sheet density
Cell Length	0.350 mm	0.0138 in	Typical Diameter
	0.200 - 0.600 mm	0.00787 - 0.0236 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	44	44	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.185 MPa	26.8 psi	ISO 7214 1998
Elongation at Break	95 %	95 %	
Compressive Yield Strength	0.0240 MPa	3.48 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.0430 MPa	6.24 psi	BS ISO 7214 1998
	@Strain 25.0 %	@Strain 25.0 %	
	0.0730 MPa	10.6 psi	BS ISO 7214 1998
	@Strain 40.0 %	@Strain 40.0 %	
	0.104 MPa	15.1 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Tear Strength	0.305 kN/m	1.74 pli	BS EN ISO 8067 1995
Compression Set	7.5 %	7.5 %	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
	24.5 %	24.5 %	24 hr recovery; BS ISO 7214 1998
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	
	31 %	31 %	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	0.0400 W/m-K	0.278 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	

Descriptive Properties	Value	Comments
Flammability	Automotive: FMVSS.302 burn rate	Pass: 2 mm and thicker
	Construction: DIN4102 pt14-B1	Pass: 6 to 20 mm thick
	Horizontal Burn Rate: ISO 7214 1998	Extinguishes and melts from flame

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