

Zotefoams Plastazote® LD24FR Low Density Polyethylene Foam, Flame Retardant

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-LD24FR-Low-Density-Polyethylene-Foam-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	0.0240 g/cc	0.000867 lb/in ³	Nominal skin/skin; BS ISO 7214 1998
	0.0210 - 0.0280 g/cc	0.000759 - 0.00101 lb/in ³	sheet density
Cell Length	0.150 - 0.450 mm	0.00591 - 0.0177 in	
	0.300 mm	0.0118 in	Typical Diameter

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	49	49	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.240 MPa	34.8 psi	ISO 7214 1998
Elongation at Break	115 %	115 %	
Compressive Yield Strength	0.0320 MPa	4.64 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.0510 MPa	7.40 psi	BS ISO 7214 1998
	@Strain 25.0 %	@Strain 25.0 %	
	0.0830 MPa	12.0 psi	BS ISO 7214 1998
	@Strain 40.0 %	@Strain 40.0 %	
	0.115 MPa	16.7 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Tear Strength	0.475 kN/m	2.71 pli	BS EN ISO 8067 1995
Compression Set	5.5 %	5.5 %	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
	19 %	19 %	24 hr recovery; BS ISO 7214 1998
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	
	27 %	27 %	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	0.0351 W/m-K	0.244 BTU-in/hr-ft ² -°F	mean temp of 10°C; ISO 8302 1991
Maximum Service Temperature, Air	100 °C	212 °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
	Aviation: CAA8/2-2.2b	Complies
	Aviation: FAR-25.853 F 1a. 1ii	Complies
	Aviation: JAR-25.853 F 1a. 1ii	Complies
	Construction: DIN4102 pt14-B1	Pass: 6 to 20 mm thick
	Construction: UL94 HF1+HF2	Pass: 3 to 13 mm thick
	Horizontal Burn Rate: ISO 7214 1998	Extinguishes and melts from flame

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