

Zotefoams Plastazote® LD45FR 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-LD45FR-Low-Density-Polyethylene-Foam-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	0.0390 - 0.0490 g/cc	0.00141 - 0.00177 lb/in ³	sheet density
	0.0450 g/cc	0.00163 lb/in ³	Nominal skin/skin; BS ISO 7214 1998
Cell Length	0.400 mm	0.0157 in	Typical Diameter
	0.250 - 0.600 mm	0.00984 - 0.0236 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	60	60	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.435 MPa	63.1 psi	ISO 7214 1998
Elongation at Break	180 %	180 %	
Compressive Yield Strength	0.0690 MPa	10.0 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.0860 MPa	12.5 psi	
	@Strain 25.0 %	@Strain 25.0 %	BS ISO 7214 1998
	0.121 MPa	17.5 psi	BS ISO 7214 1998
@Strain 40.0 %	@Strain 40.0 %		
	0.159 MPa	23.1 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Tear Strength	1.20 kN/m	6.85 pli	BS EN ISO 8067 1995
Compression Set	2.5 %	2.5 %	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
	11 %	11 %	
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	24 hr recovery; BS ISO 7214 1998
	20 %	20 %	
	@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	0.0430 W/m-K	0.298 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	

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China