

Zotefoams Plastazote® LD30SD Static Dissipative 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. 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-LD30SD-Static-Dissipative-Low-Density-Polyethylene-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0300 g/cc	0.00108 lb/in ³	Nominal skin/skin; BS ISO 7214 1998
	0.0250 - 0.0350 g/cc	0.000903 - 0.00126 lb/in ³	sheet density
Cell Length	0.300 mm	0.0118 in	Typical Diameter
	0.200 - 0.600 mm	0.00787 - 0.0236 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	62	62	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.375 MPa	54.4 psi	ISO 7214 1998
Elongation at Break	60 %	60 %	
Compressive Yield Strength	0.0620 MPa	8.99 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.0780 MPa	11.3 psi	BS ISO 7214 1998
	@Strain 25.0 %	@Strain 25.0 %	
	0.111 MPa	16.1 psi	BS ISO 7214 1998
	@Strain 40.0 %	@Strain 40.0 %	
	0.147 MPa	21.3 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Tear Strength	0.385 kN/m	2.20 pli	BS EN ISO 8067 1995
Compression Set	4.5 %	4.5 %	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
	15 %	15 %	24 hr recovery; BS ISO 7214 1998
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	
	22.5 %	22.5 %	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	0.0390 W/m-K	0.271 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	

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	1.00e+7 ohm	1.00e+7 ohm	ESD S-11.11-1993

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