

## Zotefoams Plastazote® LD24FM 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-LD24FM-Low-Density-Polyethylene-Foam-Flame-Retarded.php](http://www.lookpolymers.com/polymer_Zotefoams-Plastazote-LD24FM-Low-Density-Polyethylene-Foam-Flame-Retarded.php)

Physical Properties	Metric	English	Comments
Density	0.0190 - 0.0260 g/cc	0.000686 - 0.000939 lb/in <sup>3</sup>	sheet density
	0.0240 g/cc	0.000867 lb/in <sup>3</sup>	Nominal skin/skin; BS ISO 7214 1998
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	47	47	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.260 MPa	37.7 psi	ISO 7214 1998
Elongation at Break	135 %	135 %	
Compressive Yield Strength	0.0320 MPa	4.64 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.0500 MPa	7.25 psi	
	@Strain 25.0 %	@Strain 25.0 %	BS ISO 7214 1998
	0.0810 MPa	11.7 psi	BS ISO 7214 1998
	@Strain 40.0 %	@Strain 40.0 %	
	0.113 MPa	16.4 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Tear Strength	0.530 kN/m	3.02 pli	BS EN ISO 8067 1995
Compression Set	6.0 %	6.0 %	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
	13.5 % @Time 79200 sec, Strain 25.0 %	13.5 % @Time 22.0 hour, Strain 25.0 %	0.5 hr recovery; BS ISO 7214 1998
	21 % @Time 79200 sec, Strain 50.0 %	21 % @Time 22.0 hour, Strain 50.0 %	24 hr recovery; BS ISO 7214 1998
	29 % @Time 79200 sec, Strain 50.0 %	29 % @Time 22.0 hour, Strain 50.0 %	0.5 hr recovery; BS ISO 7214 1998

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0370 W/m-K	0.257 BTU-in/hr-ft <sup>2</sup> -°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
	Construction: DIN4102 pt14-B1	Pass: 6 to 20 mm thick
	Construction: NFP-92-501:M1	Pass: 15 to 30 mm thick
	Horizontal Burn Rate: ISO 7214 1998	Extinguishes and melts from flame

## Contact Songhan Plastic Technology Co.,Ltd.

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