

## Zotefoams Plastazote® LD24 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-LD24-Low-Density-Polyethylene-Foam.php](http://www.lookpolymers.com/polymer_Zotefoams-Plastazote-LD24-Low-Density-Polyethylene-Foam.php)

Physical Properties	Metric	English	Comments
Density	0.0190 - 0.0250 g/cc	0.000686 - 0.000903 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	50	50	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	0.320 MPa	46.4 psi	ISO 7214 1998
Elongation at Break	130 %	130 %	
Flexural Modulus	0.000400 GPa	0.0580 ksi	BS4370, part 4, method 14
Compressive Yield Strength	0.0340 MPa	4.93 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.0530 MPa	7.69 psi	
	@Strain 25.0 %	@Strain 25.0 %	BS ISO 7214 1998
	0.0850 MPa	12.3 psi	BS ISO 7214 1998
	@Strain 40.0 %	@Strain 40.0 %	
	0.118 MPa	17.1 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Tear Strength	0.495 kN/m	2.82 pli	BS EN ISO 8067 1995
Compression Set	5.0 %	5.0 %	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
	@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	0.0392 W/m-K	0.272 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	
Flammability Test	1.5	1.5	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 13.0 mm	@Thickness 0.512 in	
	2.1	2.1	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 5.00 mm	@Thickness 0.197 in	
Shrinkage	<= 1.0 %	<= 1.0 %	
	@Temperature 70.0 °C, Time 1.80e+6 sec	@Temperature 158 °F, Time 500 hour	
	1.0 %	1.0 %	
	@Temperature 80.0 °C, Time 3600 sec	@Temperature 176 °F, Time 1.00 hour	
	2.0 %	2.0 %	
	@Temperature 80.0 °C, Time 180000 sec	@Temperature 176 °F, Time 50.0 hour	
	3.0 %	3.0 %	
	@Temperature 80.0 °C, Time 1.80e+6 sec	@Temperature 176 °F, Time 500 hour	
	5.0 %	5.0 %	
	@Temperature 90.0 °C, Time 3600 sec	@Temperature 194 °F, Time 1.00 hour	
	8.0 %	8.0 %	
	@Temperature 90.0 °C, Time 180000 sec	@Temperature 194 °F, Time 50.0 hour	

Thermal Properties	Metric	English	Comments
	@Temperature 90.0 °C, Time 1.80e+6 sec	@Temperature 194 °F, Time 500 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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