

## Zotefoams Plastazote® HD30 High Density Polyethylene Foam

Category : Polymer , Thermoplastic , Polyethylene (PE)

### 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-HD30-High-Density-Polyethylene-Foam.php](http://www.lookpolymers.com/polymer_Zotefoams-Plastazote-HD30-High-Density-Polyethylene-Foam.php)

Physical Properties	Metric	English	Comments
Density	0.0230 - 0.0330 g/cc	0.000831 - 0.00119 lb/in <sup>3</sup>	sheet density
	0.0300 g/cc	0.00108 lb/in <sup>3</sup>	Nominal skin/skin; BS ISO 7214 1998
Cell Length	0.400 mm	0.0157 in	Typical Diameter
	0.250 - 0.700 mm	0.00984 - 0.0276 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	73	73	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	1.01 MPa	146 psi	ISO 7214 1998
Elongation at Break	70 %	70 %	
Flexural Modulus	0.00360 GPa	0.522 ksi	BS4370, part 4, method 14
Compressive Yield Strength	0.131 MPa	19.0 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.158 MPa	22.9 psi	
	@Strain 25.0 %	@Strain 25.0 %	BS ISO 7214 1998
	0.184 MPa	26.7 psi	BS ISO 7214 1998
	@Strain 40.0 %	@Strain 40.0 %	
	0.222 MPa	32.2 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Tear Strength	1.415 kN/m	8.074 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
	@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	0.0471 W/m-K	0.327 BTU-in/hr-ft <sup>2</sup> -°F	mean temp of 10°C; ISO 8302 1991
Maximum Service Temperature, Air	120 °C	248 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Flammability Test	1.8	1.8	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 13.0 mm	@Thickness 0.512 in	
	2.5	2.5	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	@Thickness 5.00 mm	@Thickness 0.197 in	

## Contact Songhan Plastic Technology Co.,Ltd.

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