

## Zotefoams Plastazote® HD115 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. Information provided by Zotefoams

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Zotefoams-Plastazote-HD115-High-Density-Polyethylene-Foam.php](http://www.lookpolymers.com/polymer_Zotefoams-Plastazote-HD115-High-Density-Polyethylene-Foam.php)

Physical Properties	Metric	English	Comments
Density	0.0900 - 0.125 g/cc	0.00325 - 0.00452 lb/in <sup>3</sup>	sheet density
	0.115 g/cc	0.00415 lb/in <sup>3</sup>	Nominal skin/skin; BS ISO 7214 1998
Cell Length	1.05 mm	0.0413 in	Typical Diameter
	0.700 - 1.60 mm	0.0276 - 0.0630 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	83	83	10 mm cell/cell thickness; ISO 868 1985
Tensile Strength	2.39 MPa	347 psi	ISO 7214 1998
Elongation at Break	95 %	95 %	
Flexural Modulus	0.0230 GPa	3.34 ksi	BS4370, part 4, method 14
Compressive Yield Strength	0.667 MPa	96.7 psi	BS ISO 7214 1998
	@Strain 10.0 %	@Strain 10.0 %	
	0.791 MPa	115 psi	
	@Strain 25.0 %	@Strain 25.0 %	BS ISO 7214 1998
	0.805 MPa	117 psi	BS ISO 7214 1998
@Strain 40.0 %	@Strain 40.0 %		
	0.897 MPa	130 psi	BS ISO 7214 1998
	@Strain 50.0 %	@Strain 50.0 %	
Tear Strength	8.31 kN/m	47.4 pli	BS EN ISO 8067 1995
Compression Set	7.0 %	7.0 %	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
	14 % @Time 79200 sec, Strain 50.0 %	14 % @Time 22.0 hour, Strain 50.0 %	24 hr recovery; BS ISO 7214 1998
	26 % @Time 79200 sec, Strain 50.0 %	26 % @Time 22.0 hour, Strain 50.0 %	0.5 hr recovery; BS ISO 7214 1998

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0769 W/m-K	0.534 BTU-in/hr-ft <sup>2</sup> -°F	mean temp of 10°C; ISO 8302 1991
Maximum Service Temperature, Air	130 °C	266 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Flammability Test	0.30 @Thickness 13.0 mm	0.30 @Thickness 0.512 in	Horizontal Burn Rate, mm/sec; ISO 7214 1998
	0.50 @Thickness 5.00 mm	0.50 @Thickness 0.197 in	Horizontal Burn Rate, mm/sec; ISO 7214 1998

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