

Plastazote® LD45FR

Flame-Retarded Low Density Polyethylene Foam

Product Information

Typical Values

Plastazote® is a closed cell, cross-linked polyethylene block foam manufactured using Zotefoams unique production process.

The values provided in this product information represent data gathered from random samples of our production of Plastazote® LD45FR foam and represent typical data. These are given to the best of our knowledge and should be considered as guidance for selecting a suitable grade for a given application.

Property	Test Standard	Units	Typical value
Apparent Density Skin/Skin	BS EN ISO 7214:2012	kg/m ³	45 (nominal)
Cell Size (Cell Diameter)	Internal	mm	0.4
Compression Stress-Strain 25% compression 50% compression	BS EN ISO 7214:2012 25 mm cell-cell	kPa	88 161
Tensile Strength Tensile Elongation	BS EN ISO 7214:2012	kPa %	449 158
Flammability Aviation	CS 25.853 App. F 1a 1ii FAR 25.853 App. F 1a 1ii		12 second test Pass at 3mm and 12mm
Flammability UL94	UL94 Ed.6		HF1 at 3-3.3mm
Compression Set 25% comp., 22hr, 23°C ½ hr recovery 24 hr recovery	BS EN ISO 7214:2012 25 mm cell-cell	% set	8 3
Tear Strength	BS EN ISO 8067:2008 Method B	N/m	2404
Shore Hardness OO Scale	BS EN ISO 868:2003		64
Recommended maximum operating temperature*	Internal	°C	105
Water absorption	ISO 2896:2001 Ed3.	%	<1
Thermal conductivity Mean temperature 10°C	ISO 8301:1991	W/mK	0.038

* RECOMMENDED MAXIMUM OPERATING TEMPERATURE

The maximum operating temperature shown is defined as the temperature which will typically cause a linear shrinkage of 5% after a 24hr exposure period, using sample dimensions of 100mm x 100mm x 25mm. This figure is provided for general guidance only. The actual level of shrinkage the foam will undergo at any particular temperature is dependant on a number of system variables such as, sample dimensions, cell size, loading conditions and exposure period.

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