

Plastazote® LD45

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® LD45 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			(nominal)
Skin/Skin	BS EN ISO 7214:2012	kg/m ³	45
Cell Size (Cell Diameter)	Internal	mm	0.4
Compression Stress-Strain	BS EN ISO 7214:2012	kPa	
25% compression	25 mm cell-cell		90
50% compression			163
Tensile Strength	BS EN ISO 7214:2012	kPa	537
Tensile Elongation		%	155
Flammability			
Automotive	FMVSS.302 – Burn rate	<100mm/min.	Pass at 6mm
Compression Set	BS EN ISO 7214:2012	% set	
25% comp., 22hr, 23°C	25 mm cell-cell		
½ hr recovery			8
24 hr recovery			3
Tear Strength	BS EN ISO 8067:2008 Method B	N/m	2414
Shore Hardness	BS EN ISO 868:2003		
OO Scale			63
Recommended maximum operating temperature*	Internal	°C	100
Water absorption	ISO 2896:2001 Ed3.	%	<1
Thermal conductivity	ISO 8301:1991	W/mK	0.041
Mean temperature 10°C			

* 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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