

# Plastazote® LD45 FR

## 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® LD45 FR** 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
<b>Apparent Density</b>			(nominal)
Skin/Skin	BS EN ISO 7214:2012	kg/m <sup>3</sup>	45
<b>Cell Size</b> (Cell Diameter)	Internal	mm	0.4
<b>Compression Stress-Strain</b>	BS EN ISO 7214:2012	kPa	
25% compression	25 mm cell-cell		88
50% compression			162
<b>Tensile Strength</b>	BS EN ISO 7214:2012	kPa	449
<b>Tensile Elongation</b>		%	158
<b>Flammability</b>	CS 25.853 App. F 1a 1ii		12 second test
<b>Aviation **</b>	FAR 25.853 App. F 1a 1ii		Pass at 3mm & 12mm
<b>Flammability</b>			HF1
<b>UL94***</b>	UL94 Ed.6		at 3mm
<b>Compression Set</b>	BS EN ISO 7214:2012	% set	
25% comp., 22hr, 23°C	25 mm cell-cell		
½ hr recovery			8
24 hr recovery			3
<b>Tear Strength</b>	BS EN ISO 8067:2008	N/m	2404
	Method B		
<b>Shore Hardness</b>	BS EN ISO 868:2003		
OO Scale			61
<b>Recommended maximum operating temperature*</b>	Internal	°C	105
<b>Water absorption</b>	ISO 2896:2001 Ed3.	%	<1
<b>Thermal conductivity</b>	ISO 8301:1991	W/mK	0.038
Mean temperature 10°C			

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EMS 36270  
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### \* 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.

\*\* To receive batch certification for this test please order the product with T51 code.

\*\*\* To receive batch certification for this test please order the product with T114 code.