

# Plastazote® LD24FR

## 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® LD24FR 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> Skin/Skin	BS EN ISO 7214:2012	kg/m <sup>3</sup>	24 (nominal)
<b>Cell Size</b> (Cell Diameter)	Internal	mm	0.3
<b>Compression Stress-Strain</b> 25% compression 50% compression	BS EN ISO 7214:2012 25 mm cell-cell	kPa	51 114
<b>Tensile Strength</b> <b>Tensile Elongation</b>	BS EN ISO 7214:2012	kPa %	245 105
<b>Flammability</b> <b>Aviation</b>	CS 25.853 App. F 1a 1ii FAR 25.853 App. F 1a 1ii		12 second test Pass at 3mm and 12mm
<b>Flammability</b> <b>UL94</b>	UL94 Ed.6		HF1 at 2-12.7mm
<b>Compression Set</b> 25% comp., 22hr, 23°C ½ hr recovery 24 hr recovery	BS EN ISO 7214:2012 25 mm cell-cell	% set	12 5
<b>Tear Strength</b>	BS EN ISO 8067:2008 Method B	N/m	1080
<b>Shore Hardness</b> OO Scale	BS EN ISO 868:2003		52
<b>Recommended maximum operating temperature*</b>	Internal	°C	90
<b>Water absorption</b>	ISO 2896:2001 Ed3.	%	<1
<b>Thermal conductivity</b> Mean temperature 10°C	ISO 8301:1991	W/mK	0.034

#### \* 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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