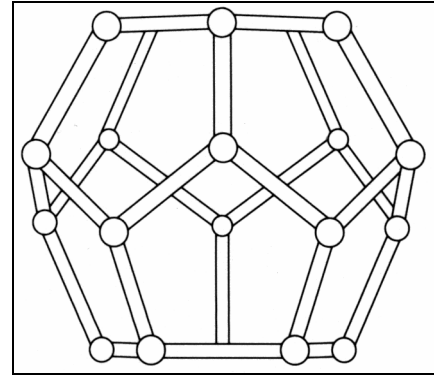


# Plastazote® LD24FR

## Flame Retardant Low Density Polyethylene Foam Property Data Sheet



Plastazote® is a closed cell, cross-linked polyethylene foam manufactured using Zotefoams unique production process. This data sheet characterises Plastazote foam LD24FR which is available in sheet form and is fabricated by modern techniques and can be thermoformed into shapes.

Property	Test Procedure	Units	LD24FR
<b>Nominal Density - Skin/Skin</b>	BS ISO 7214 1998	kg/m <sup>3</sup>	24
<b>Cell Size – Typical Diameter</b>	Internal	mm	0.3
<b>Compression Stress-Strain</b>	BS ISO 7214 1998		
10% compression		kPa	32
25% compression		kPa	51
40% compression		kPa	83
50% compression		kPa	115
<b>Compression Set</b>	BS ISO 7214 1998		
25% comp., 22hr, 23°C	25 mm cell-cell		
½ hr recovery		% set	13
24hr recovery		% set	5.5
50% comp., 22hr, 23°C			
½ hr recovery		% set	27
24hr recovery		% set	19
<b>Tensile Strength</b>	ISO 7214 1998	kPa	240
<b>Tensile Elongation</b>		%	115
<b>Tear Strength</b>	BS EN ISO 8067 1995	N/m	475
<b>Shore Hardness OO Scale</b>	ISO 868 1985		
10mm cell/cell thickness		OO	49
<b>Recommended operating temperature range*</b>	Internal	°C	+100 max -70 min
<b>Thermal Conductivity</b>	ISO 8302 1991	W /m.K	0.0351
mean temp of 10°C			
<b>Flammability**</b>			
<b>Aviation</b>	FAR – 25.853 F 1a. 1ii JAR – 25.853 F 1a. 1ii CAA8 /2 – 2.2b		Complies Complies Complies
<b>Automotive</b>	FMVSS.302 – Burn rate	<100mm/min.	Pass: 2mm and thicker
<b>Construction</b>	DIN 4102 pt14 – B1 UL94 HF1 + HF2		Pass: 6 to 20mm thick Pass: 3 to 13mm thick
<b>Horizontal Burn Rate</b>	ISO 7214 1998		
5mm thick		mm/sec	Extinguishes and
13mm thick		mm/sec	melts from flame



**\* RECOMMENDED OPERATING TEMPERATURE RANGE**

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. Please refer to Technical Bulletin T2 for more detailed information.

**\*\* TEST REPORTS OR CERTIFICATION AVAILABLE ON REQUEST**

**HEALTH & SAFETY**

A separate data sheet (T5) entitled "Health and Safety Information" should be consulted.

**PRODUCT SPECIFICATION**

This Property Data Sheet provides typical properties on representative samples of material. For a product specification please refer to data sheet T7.

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