

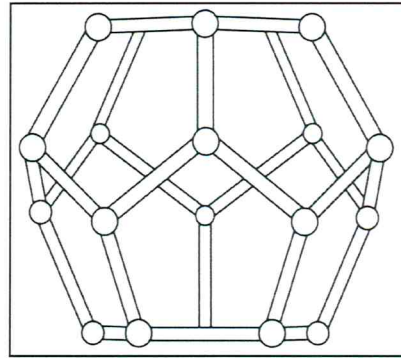
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## Plastazote® LD18

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### Low Density Polyethylene Foam Property Data Sheet

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Plastazote® is a closed cell, cross-linked polyethylene foam manufactured using Zotefoams unique production process. This data sheet characterises Plastazote foam LD18 which is available in sheet form and is fabricated by modern techniques and can be thermoformed into shapes.

Property	Test Procedure	Units	LD18
<b>Nominal Density - Skin/Skin</b>	BS ISO 7214 1998	kg/m <sup>3</sup>	18
<b>Cell Size – Typical Diameter</b>	Internal	mm	0.8
<b>Compression Stress-Strain</b>	BS ISO 7214 1998		
10% compression		kPa	33
25% compression		kPa	50
40% compression		kPa	81
50% compression		kPa	113
<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	27.5
24hr recovery		% set	18.5
<b>Tensile Strength</b>	ISO 7214 1998	kPa	300
<b>Tensile Elongation</b>		%	125
<b>Tear Strength</b>	BS EN ISO 8067 1995	N/m	520
<b>Shore Hardness OO Scale</b>	ISO 868 1985		
10mm cell/cell thickness		OO	50
<b>Recommended operating temperature range*</b>	Internal	°C	+100 max -70 min
<b>Thermal Conductivity</b>	ISO 8302 1991	W /m.K	0.0446
mean temp of 10 °C			
<b>Flammability</b>			
<b>Automotive</b>	FMVSS.302 – Burn rate	<100mm/min.	Pass: 14 mm and thicker
<b>Horizontal Burn Rate</b>	ISO 7214 1998		
5mm thick		mm/sec	2.2
13mm thick		mm/sec	1.7



#### **\* 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.

#### **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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Zotefoams plc  
675 Mitcham Road  
Croydon  
CR9 3AL  
United Kingdom  
Telefon: +44 (0) 20 8664 1600  
Telefax: +44 (0) 20 8664 1616