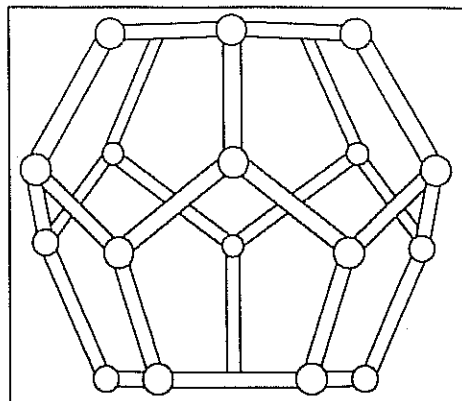


# Plastazote® LD29

## 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 LD29 which is available in sheet form and is fabricated by modern techniques and can be thermoformed into shapes.

Property	Test Procedure	Units	LD29
Nominal Density - Skin/Skin	BS ISO 7214 1998	kg/m <sup>3</sup>	29
Cell Size - Typical Diameter	Internal	mm	0.65
<b>Compression Stress-Strain</b>	BS ISO 7214 1998		
10% compression		kPa	47
25% compression		kPa	64
40% compression		kPa	97
50% compression		kPa	131
<b>Compression Set</b>	BS ISO 7214 1998		
25% comp., 22hr, 23°C	25 mm cell-cell		
½ hr recovery		% set	10.5
24hr recovery		% set	3
50% comp., 22hr, 23°C			
½ hr recovery		% set	23.5
24hr recovery		% set	14
<b>Tensile Strength</b>	ISO 7214 1998	kPa	375
<b>Tensile Elongation</b>		%	140
<b>Tear Strength</b>	BS EN ISO 8067 1995	N/m	740
<b>Shore Hardness OO Scale</b>	ISO 868 1985		
10mm cell/cell thickness		OO	53
<b>Recommended operating temperature range*</b>	Internal	°C	+100 max -70 min
<b>Thermal Conductivity</b>	ISO 8302 1991	W /m.K	0.039
mean temp of 10°C			
<b>Flammability</b>			
Automotive	FMVSS.302 - Burn rate	<100mm/min.	Pass: 8 mm and thicker
Horizontal Burn Rate	ISO 7214 1998		
5mm thick		mm/sec	1.7
13mm thick		mm/sec	1.2



#### **\* 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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