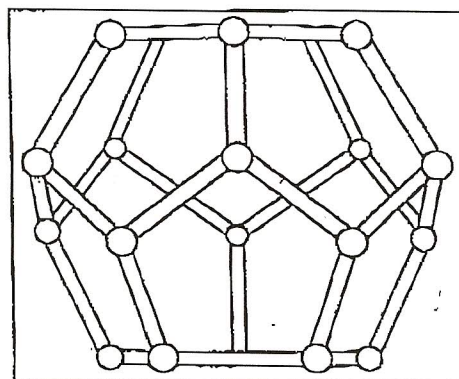


# Plastazote® LD45

## 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 LD45 which is available in sheet form and is fabricated by modern techniques and can be thermoformed into shapes.

Property	Test Procedure	Units	LD45
Nominal Density - Skin/Skin	BS ISO 7214 1998	kg/m <sup>3</sup>	45
Cell Size - Typical Diameter	Internal	mm	0.4
<b>Compression Stress-Strain</b>	<b>BS ISO 7214 1998</b>		
10% compression		kPa	77
25% compression		kPa	94
40% compression		kPa	130
50% compression		kPa	170
<b>Compression Set</b>	<b>BS ISO 7214 1998</b>		
25% comp., 22hr, 23°C	25 mm cell-cell		
½ hr recovery		% set	7.5
24hr recovery		% set	2.5
50% comp., 22hr, 23°C			
½ hr recovery		% set	18.5
24hr recovery		% set	10
<b>Tensile Strength</b>	<b>ISO 7214 1998</b>	<b>kPa</b>	<b>560</b>
<b>Tensile Elongation</b>		<b>%</b>	<b>175</b>
<b>Tear Strength</b>	<b>BS EN ISO 8067 1995</b>	<b>N/m</b>	<b>1150</b>
<b>Shore Hardness OO Scale</b>	<b>ISO 868 1985</b>		
10mm cell/cell thickness		OO	60
<b>Recommended operating temperature range*</b>	Internal	°C	+105 max -70 min
<b>Thermal Conductivity</b>	<b>ISO 8302 1991</b>	<b>W/m.K</b>	<b>0.0420</b>
mean temp of 10°C			
<b>Flammability</b>			
Automotive	FMVSS.302 - Burn rate	<100mm/min.	Pass: 5 mm and thicker
Horizontal Burn Rate	ISO 7214 1998		
5mm thick		mm/sec	1.3
13mm thick		mm/sec	0.7



