

LD45 Plastazote® Superior Closed Cell Foam Datasheet

Plastazote® is a closed cell, cross-linked polyethylene foam manufactured using a unique production process.

This data sheet characterizes 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 ³	45
Cell Size – Typical Diameter	Internal	mm	0.4
Compression Stress-Strain	BS ISO 7214 1998		
10% compression		kPa	77
25% compression		kPa	94
40% compression		kPa	130
50% compression		kPa	170
Compression Set	BS ISO 7214 1998		
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
Tensile Strength	ISO 7214 1998	kPa	560
Tensile Elongation		%	175
Tear Strength	BS EN ISO 8067 1995	N/m	1150
Shore Hardness OO Scale	ISO 868 1985		
10mm cell/cell thickness		OO	60
Recommended operating temperature range*	Internal	°C	+105 max -70 min
Thermal Conductivity	ISO 8302 1991	W /m.K	0.0420
mean temp of 10°C			
Flammability			
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

*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 dependent on a number of system variables such as, sample dimensions, cell size, loading conditions and exposure period.

This is a general guide only and Simply Foam Products Ltd assumes no obligation or liability for the information in this document. No express or implied warranties are made and Customers are responsible for determining whether products and the information given are appropriate for the customer's intended use.