

LD33 Plastazote® Superior Closed Cell Foam Datasheet

Plastazote® is a closed cell, cross-linked polyethylene foam manufactured using a unique production process. This data sheet characterises Plastazote foam LD33 which is available in sheet form and is fabricated by modern techniques and can be thermoformed into shapes.

Property	Test Procedure	Units	LD33
Nominal Density - Skin/Skin	BS ISO 7214 1998	kg/m ³	33
Cell Size – Typical Diameter	Internal	mm	0.37
Compression Stress-Strain	BS ISO 7214 1998		
10% compression		kPa	51
25% compression		kPa	69
40% compression		kPa	102
50% compression		kPa	137
Compression Set	BS ISO 7214 1998		
25% comp., 22hr, 23 °C	25 mm cell-cell		
½ hr recovery		% set	10
24hr recovery		% set	3
50% comp., 22hr, 23 °C			
½ hr recovery		% set	22.5
24hr recovery		% set	13.5
Tensile Strength	ISO 7214 1998	kPa	440
Tensile Elongation		%	155
Tear Strength	BS EN ISO 8067 1995	N/m	785
Shore Hardness OO Scale	ISO 868 1985		
10mm cell/cell thickness		OO	58
Recommended operating temperature range*	Internal	°C	+100 max -70 min
Thermal Conductivity	ISO 8302 1991	W /m.K	0.0405
mean temp of 10 °C			
Flammability			
Automotive	FMVSS.302 – Burn rate	<100mm/min.	Pass: 7 mm and thicker
Horizontal Burn Rate	ISO 7214 1998		
5mm thick		mm/sec	1.6
13mm thick		mm/sec	1.0

*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.

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