

Specification Sheet / 01 LD45 Flame retardant



ISO9001, ISO14001, ISO45001
Certificate Ref: 11739

Property	Test Procedure	Units	Value
Nominal density- skin/Skin	BS ISO 7214 1998	kg/m ³	45
Cell Size- Typical Diameter	Internal	mm	0.4
Compression Stress- Strain 10% compression	BS ISO 7214 1998	kPa	69
Compression Stress- Strain 25% compression	BS ISO 7214 1998	kPa	86
Compression Stress- Strain 40% compression	BS ISO 7214 1998	kPa	121
Compression Stress- Strain 50% compression	BS ISO 7214 1998	kPa	159
Compression Set 25% comp 22 Hr 23°C 1/2 hr recovery	BS ISO 7214 1998 25mm cell-cell	% Set	8.5
Compression Set 25% comp 22 Hr 23°C 24 hr recovery	BS ISO 7214 1998 25mm cell-cell	% Set	2.5
Compression Set 50% comp 22 Hr 23°C 1/2 hr recovery	BS ISO 7214 1998 25mm cell-cell	% Set	20
Compression Set 50% comp 22 Hr 23°C 24 hr recovery	BS ISO 7214 1998 25mm cell-cell	% Set	11
Tensile Strength	ISO 7214 1998	kPa	435
Tensile Elongation	ISO 7214 1998	%	180
Tear Strength	BS EN ISO 8067 1995	N/m	1200
Shore Hardness OO scale 10mm cell/cell thickness	ISO 868 1985	OO	60
Reccomended Operating Temperature Range*	Internal	°C	+105 Max -70 min
Thermal Conductivity Mean Temp 10°C	ISO 832 1991	W/m.K	0.043
Flammability Aviation	FAR-25.853 F 1a. 1ii	Complies	
Flammability Aviation	JAR-25.853 F 1a. 1ii	Complies	
Flammability Aviation	CAA8/2-2.2b	Complies	
Flammability Construction	DIN 4102pt14-B1	Pass: 6 to 20mm thick	
Flammability Construction	UL94 HF1 + HF2	Pass 3 to 13mm thick	
Flammability Automotive	FMVSS.302-Burn rate	<100mm/min	Pass: 2mm and thicker

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Specification Sheet / 02
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Horizontal Burn Rate 5mm Thick	ISO 7214 1998	mm/sec	Extinguishes and melts from flame
Horizontal Burn Rate 13mm Thick	ISO 7214 1998	mm/sec	Extinguishes and melts from Flame

***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 24 hr 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 amd exposure period.

Change Control Date	Change
26/09/14	Created



The above figures are average values.
We recommend that you examine any material you select to ensure its suitability for your application.
Tolerance(s) applied in accordance with ASG specification No W1007 (<https://bit.ly/3nKm6Hj>) unless otherwise stated.
Our standard terms and conditions of trading (<https://bit.ly/3b3mThw>) apply at all times.

