

Specification Sheet / 01 LD24 FR Polyethylene Foam



ISO9001, ISO14001, ISO45001
Certificate Ref: 11739

General

Plastazote is a closed cell, cross-linked polyethylene foam manufactured using a unique production process. This data sheet characterises Plastazote foam LD18 which is available in sheet form and is fabricated by modern techniques and can be thermoformed into shapes.

Property	Test Procedure	Units	Value
Nominal density- skin/Skin	BS ISO 7214 1998	kg/m ³	24
Cell Size - Typical Diameter	Internal	mm	0.3
Compression Stress- Strain 10% compression	BS ISO 7214 1998	kPa	32
Compression Stress- Strain 25% compression	BS ISO 7214 1998	kPa	51
Compression Stress- Strain 40% compression	BS ISO 7214 1998	kPa	83
Compression Stress- Strain 50% compression	BS ISO 7214 1998	kPa	115
Compression Set 25% comp 22 Hr 23°C 1/2 hr recovery	BS ISO 7214 1998 25mm cell-cell	% Set	13
Compression Set 25% comp 22 Hr 23°C 24 hr recovery	BS ISO 7214 1998 25mm cell-cell	% Set	5.5
Compression Set 50% comp 22 Hr 23°C 1/2 hr recovery	BS ISO 7214 1998 25mm cell-cell	% Set	27
Compression Set 50% comp 22 Hr 23°C 24 hr recovery	BS ISO 7214 1998 25mm cell-cell	% Set	19
Tensile Strength	ISO 7214 1998	kPa	240
Tensile Elongation	ISO 7214 1998	%	115
Tear Strength	BS EN ISO 8067 1995	N/m	475
Shore Hardness OO scale 10mm cell/cell thickness	ISO 868 1985	OO	49
Recommended Operating Temperature Range*	Internal	°C	+100 Max -70 min
Thermal Conductivity Mean Temp 10°C	ISO 832 1991	W/m.K	0.0351
Flammability Automotive	FMVSS.302-Burn rate	<100mm/min	Pass: 2mm and thicker
Flammability Aviation	FAR -25.853 F 1a. 1ii JAR -25.853 F 1a. 1ii CAA8 /2 - 2.2b	Complies	
Flammability Construction	DIN 4102 pt14 ? B1 UL94 HF1 + HF2	Pass: 6 to 20mm thick Pass: 3 to 13mm thick	
Horizontal Burn Rate	ISO 7214 1998	5mm thick 13mm thick	Extinguishes and melts from flame

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Specification Sheet / 02

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***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
28/11/2016	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 WI007 (<https://bit.ly/3nKm6Hj>) unless otherwise stated.
Our standard terms and conditions of trading (<https://bit.ly/3b3mThw>) apply at all times.

