Polymer Works, Hope Street
Dudley, West Midlands DY2 8RS

t: 01384 252555
f: 01384 252373
e: technical@advancedseals.co.uk

http://www.advancedseals.co.uk

Specification Sheet / 01
LD18 Polyethylene Foam

8320
Certificate No. 11738-EMS-001
ISO 9001:2015 ISO 14001:2015

General

Plastazote is a closed cell, cross-linked polyethylene foam manufactured using a unique production process. This data sheet characterises Plastazote foam LDI8 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/m³	18
Cell Size - Typical Diameter	Internal	mm	0.3
Compression Stress- Strain 10% compression	BS ISO 7214 1998	kPa	33
Compression Stress- Strain 25% compression	BS ISO 7214 1998	kPa	50
Compression Stress- Strain 40% compression	BS ISO 7214 1998	kPa	81
Compression Stress- Strain 50% compression	BS ISO 7214 1998	kPa	113
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	27.5
Compression Set 50% comp 22 Hr 23°C 24 hr recovery	BS ISO 7214 1998 25mm cell-cell	% Set	18.5
Tensile Strength	ISO 7214 1998	kPa	300
Tensile Elongation	ISO 7214 1998	%	125
Tear Strength	BS EN ISO 8067 1995	N/m	520
Shore Hardness OO scale 10mm cell/cell thickness	ISO 868 1985	OO	50
Reccomended Operating Temperature Range*	Internal	°C	+100 Max -70 min
Thermal Conductivity Mean Temp 10°C	ISO 832 1991	W/m.K	0.0446
Flammability Automotive	FMVSS.302-Burn rate	<100mm/min	Pass:14mm and thicker
Horizontal Burn Rate 5mm Thick	ISO 7214 1998	mm/sec	2.2
Horizontal Burn Rate 13mm Thick	ISO 7214 1998	mm/sec	1.7

*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 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.

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Specification Sheet / 02
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Change Control Date	***Change***
05/07/2016	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.