

Specification Sheet / 01 LD32CN Conductive Polyethylene



ISO9001, ISO14001, ISO45001
Certificate Ref: 11738

Property	Test Procedure	Units	Value
Nominal density- skin/Skin	BS EN ISO 7214:2012	kg/m ³	32
Cell Size- Typical Diameter	Internal	mm	0.8
Compression Stress- Strain 10% compression	BS EN ISO 7214:2012	kPa	68
Compression Stress- Strain 25% compression	BS EN ISO 7214:2012	kPa	86
Compression Stress- Strain 40% compression	BS EN ISO 7214:2012	kPa	116
Compression Stress- Strain 50% compression	BS EN ISO 7214:2012	kPa	153
Compression Set 25% comp 22 Hr 23°C 1/2 hr recovery	BS EN ISO 7214:2012 25mm cell-cell	% Set	13
Compression Set 25% comp 22 Hr 23°C 24 hr recovery	BS EN ISO 7214:2012 25mm cell-cell	% Set	5
Compression Set 50% comp 22 Hr 23°C 1/2 hr recovery	BS EN ISO 7214:2012 25mm cell-cell	% Set	27
Compression Set 50% comp 22 Hr 23°C 24 hr recovery	BS EN ISO 7214:2012 25mm cell-cell	% Set	19
Tensile Strength	BS EN ISO 7214:2012	kPa	350
Tensile Elongation	BS EN ISO 7214:2012	%	130
Tear Strength	BS EN ISO 8067 1995	N/m	495
Shore Hardness OO scale 10mm cell/cell thickness	ISO 868 1985	OO	50
Reccomended Operating Temperature Range*	Internal	°C	+100 Max -70 min
Electric Conductance volumetric Resistivity	ASTM D991-89 (R2014)	O.cm	2045
Thermal Conductivity Mean Temp 10°C	ISO 832 1991	W/m.K	0.0392
Flammability Automotive	FMVSS.302-Burn rate	<100mm/min	Pass:12mm and thicker
Horizontal Burn Rate 5mm Thick	BS EN ISO 7214:2012	mm/sec	2.1
Horizontal Burn Rate 13mm Thick	BS EN ISO 7214:2012	mm/sec	1.5

***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 and exposure period.

Change Control Date	Change
13/01/2014	Created

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26/02/2016

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.



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