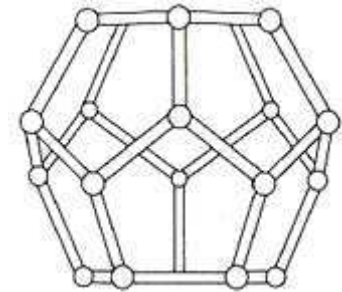


# Plastazote® LD50CN

## Conductive Low Density Polyethylene Foam Property Data Sheet



Plastazote® is a closed cell, cross-linked polyethylene foam manufactured using Zotefoams unique production process.

This data sheet characterises Plastazote foam LD50CN which is available in sheet form and is fabricated by modern techniques and can be thermoformed into shapes.

Property	Test Procedure	Units	LD50CN
<b>Nominal Density - Skin/Skin</b>	BS ISO 7214 1998	kg/m <sup>3</sup>	50
<b>Cell Size – Typical Diameter</b>	Internal	mm	0.85
<b>Compression Stress-Strain</b>	BS ISO 7214 1998		
10% compression		kPa	120
25% compression		kPa	139
40% compression		kPa	172
50% compression		kPa	214
<b>Compression Set</b>	BS ISO 7214 1998		
25% comp., 22hr, 23°C	25 mm cell-cell		
½ hr recovery		% set	7.5
24hr recovery		% set	3.5
50% comp., 22hr, 23°C			
½ hr recovery		% set	16
24hr recovery		% set	10
<b>Tensile Strength</b>	ISO 7214 1998	kPa	515
<b>Tensile Elongation</b>		%	65
<b>Tear Strength</b>	BS EN ISO 8067 1995	N/m	800
<b>Shore Hardness OO Scale</b>	ISO 868 1985		
10mm cell/cell thickness		OO	73
<b>Recommended operating temperature range*</b>	Internal	°C	+105 max -70 min
<b>Thermal Conductivity</b>	ISO 8302 1991	W /m.K	0.042
mean temp of 10°C			
<b>Flammability</b>			
<b>Automotive</b>	FMVSS.302 – Burn rate	<100mm/min.	Pass: 5 mm and thicker
<b>Horizontal Burn Rate</b>	ISO 7214 1998		
5mm thick		mm/sec	1.0

13mm thick		mm/sec	0.7
<b>Electrical Conductance</b>			
<b>Volumetric Resistivity</b>	ASTM D991-89	ohm.cms	10 <sup>3</sup>

**\* 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 dependant on a number of system variables such as, sample dimensions, cell size, loading conditions and exposure period. Please refer to Technical Bulletin T2 for more detailed information.

**HEALTH & SAFETY**

A separate data sheet (T5) entitled "[Health and Safety Information](#)" should be consulted.

Click to view: [LD CN \(Conductive\)](#) or [SD \(Static Dissipative\)](#) grades - [MATERIAL SAFETY DATA SHEET](#).

**PRODUCT SPECIFICATION**

This Property Data Sheet provides typical properties on representative samples of material. For a product specification [please refer to data sheet T7](#).

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