

**Grade**

- Plastazote® – LD45

**Description**

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

**Physical**

PROPERTY	TEST METHOD	UNITS	TYPICAL VALUE
<b>Apparent Density</b> skin/skin	BS EN ISO 7214:2012	Kg/m <sup>3</sup>	45 (nominal)
<b>Cell Size</b> (Cell Diameter)	Internal	mm	0.4
<b>Compression Stress – Strain</b> 25% compression 50% compression	BS EN ISO 7214:2012 25mm cell-cell	kPa	90 163
<b>Tensile Strength</b> <b>Tensile Elongation</b>	BS EN ISO 7214:2012	kPa %	537 155
<b>Compression Set</b> 25% comp., 22hr, 23°C ½ hr recovery 24 hr recovery	BS EN ISO 7214:2012 25mm cell-cell	% set	8 3
<b>Tear Strength</b>	BS EN ISO 8067:2008 Method B	N/m	2414
<b>Shore Hardness</b> 00 Scale	BS EN ISO 868:2003		63
<b>Recommended maximum operating temperature*</b>	Internal	°C	100
<b>Flammability</b> Automotive	FMVSS.302 – Burn Rate	<100mm/min.	Pass at 6mm
<b>Water Absorption</b>	ISO 2896:2001 Ed3	%	<1
<b>Thermal Conductivity</b> Mean temperature 10°C	ISO 8031:1991	W/mK	0.041

**\*Recommended maximum operating temperature**

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 dependent on a number of system variables such as, sample dimensions, cell size, loading conditions and exposure period.

The information given above is based upon average values and is no way intended as a warranty. The purchaser is deemed responsible for determining the suitability of the product for any particular application. All data relating to suitable uses and descriptions information concerning our products are compiled from research and are believed to be reliable but are provided for guidance purposes only. The company holds no legal or contractual responsibility for information supplied.

**Convertors and suppliers of die cut gaskets, tape, sheeting, fabrications, machined plastic components, rubber mouldings, extrusions and adhesives.**



**Grade**

- Plastazote® – LD45FR

**Description**

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

**Physical**

PROPERTY	TEST METHOD	UNITS	TYPICAL VALUE
<b>Density</b> skin/skin	BS EN ISO 7214:2012	Kg/m <sup>3</sup>	45 (nominal)
<b>Cell Size</b> (Cell Diameter)	Internal	mm	0.4
<b>Compression Stress – Strain</b> 25% compression 50% compression	BS EN ISO 7214:2012 25mm cell-cell	kPa kPa	88 162
<b>Tensile Strength</b> <b>Tensile Elongation</b>	BS EN ISO 7214:2012	kPa %	449 158
<b>Flammability</b> <b>Aviation</b>	CS 25.853 App. F 1a 1ii FAR 25.853 App. F 1A 1ii	-	12 second test Pass at 3mm and 12mm
<b>Flammability</b> <b>UL94</b>	UL94 Ed.6	-	HF1 at 3mm
<b>Compression Set</b> 25% comp., 22hr, 23°C ½ hr recovery 24 hr recovery	BS EN ISO 7214:2012 25mm cell-cell	% set	8 3
<b>Tear Strength</b>	BS EN ISO 8067:2008 Method B	N/m	2404
<b>Shore Hardness</b> 00 Scale	BS EN ISO 868:2003		61
<b>Recommended maximum operating temperature*</b>	Internal	°C	105
<b>Water Absorption</b>	ISO 2896:2001 Ed3	%	<1
<b>Thermal Conductivity</b> Mean temperature 10°C	ISO 8031:1991	W/mK	0.038

**\*Recommended maximum operating temperature**

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 dependent on a number of system variables such as, sample dimensions, cell size, loading conditions and exposure period.

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