



## LD45 – LOW DENSITY POLYETHYLENE FOAM

## MATERIAL SPECIFICATION SHEET

Property	Test Standard	Units	Typical Values
Apparent Density (Skin/Skin)	BE EN ISO 7214:2012	Kg/m <sup>3</sup>	45 (nominal)
Cell Size (Cell Diameter)	Internal	Mm	0.4
Compression Stress-Strain (25% Compression)	BS EN ISO 7214:2012 (25mm cell-cell)	kPa	90
Compression Stress-Strain (50% Compression)	BS EN ISO 7214:2012 (25mm cell-cell)	kPa	163
Tensile Strength	BE EN ISO 7214:2012	kPa	537
Tensile Elongation	BE EN ISO 7214:2012	%	155
Compression Set (25% Comp, 22hr, 23°C) 1/2 hr Recovery	BS EN ISO 7214:2012 (25mm cell-cell)	%	8
Compression Set (25% Comp, 22hr, 23°C) 24 hr Recovery	BS EN ISO 7214:2012 (25mm cell-cell)	%	3
Tear Strength	BS EN ISO 8067:2008 Method B	N/m	2414
Shore Hardness OO Scale	BS EN ISO 868:2003		63
Recommended Maximum Operation Temperature *	Internal	°C	100
Flammability Automotive	FMVSS.302 – Burn rate	<100mm/min	Pass at 6mm And above
Water Absorption	ISO 2896:2001 Ed3	%	< 1
Thermal Conductivity Mean Temperature 10°C	ISO 8301:1991	W/mK	0.038

\* 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. The 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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