

PLASTAZOTE® LD45 FR

Premium Durable Foams

Plastazote® lightweight, crosslinked polyethylene block foams are manufactured using Zotefoams unique autoclave technology to satisfy a wide range of applications across multiple industries.

TYPICAL VALUES

The values provided represent data gathered from random samples of our production of the foam and should be considered as guidance for selecting a suitable grade for a given application. This does not constitute a specification.

PROPERTY	TEST STANDARD	UNITS	TYPICAL VALUE
Apparent Density Skin/Skin	ISO 7214:2012	kg/m ³	(nominal) 45
Cell Size (Cell Diameter)	Internal	mm	0.4
Compression Stress-Strain			
25% Compression	ISO 7214:2012	kPa	88
50% Compression			162
Tensile Strength	ISO 7214:2012	kPa	449
Tensile Elongation		%	158
Compression Set			
25% Comp./22 Hour/23°C	ISO 7214:2012	% set	8
½ Hour Recovery			3
24 Hour Recovery			
Tear Strength	ISO 8067:2008 Method B	N/m	2404
Hardness OO Scale	ISO 868:2003		61
Recommended Maximum Operating Temperature*	Internal	°C	105
Water Absorption	ISO 2896:2001 Ed. 3	%	<1
Thermal Conductivity (Mean Temperature) 10°C	ISO 8301:1991	W/mK	0.038
PROPERTY	TEST STANDARD	TYPICAL VALUE	
Flammability Aviation	CS 25.853 App. F 1a 1ii FAR 25.853 App. F 1a 1ii	12 second test Pass at 3mm & 12mm	
Flammability UL94	UL94 Ed.7	HF1 at thickness 3mm	

*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 temperature is dependent on several system variables such as, sample dimensions, cell size, loading conditions and exposure period.

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