

Technical Data Sheet

Foam | Polyethylene | LD45FR

Plastazote LD45FR is a closed-cell, cross-linked polyethylene foam blended with a flame retardant. It has a nominal density of 2.8 PCF / 45 kg/m³. It is manufactured with Zotefoams' unique chemical-free nitrogen infusion process, producing an environmentally friendly product with low VOCs. It is available in sheet form and can be thermoformed into different shapes. It has a cell size of 0.4 mm and a thermal conductivity of 0.043 W/m.K.

Item	Specs		Test Method
Grade			
Density (PCF) (kg/m ³)	2.8 PCF / 45 kg/m ³		BS ISO 7214 1998
Compression Deflection (CFD) (psi) (kPa) @10% @25% @40% @50%	10 psi / 69 kPa 12.4 psi / 86 kPa 17.5 psi / 121 kPa 23 psi / 159 kPa		BS ISO 7214 1998
Shore Hardness OO (Durometer)	60		ISO 868 1985
Compression Set (%) 22hr, 23°C @25%: ½ hr recovery - 24 hrs recovery @50%: ½ hr recovery - 24 hrs recovery	8.5 2.5 20 11		BS ISO 7214 1998 25mm cell-cell
Tensile Strength (psi)(kPa)	63.1 psi / 435 kPa		ISO 7214 1998
Elongation (%)	180		ISO 7214 1998
Tear Strength Resistance (N/m)	1200		BS EN ISO 8067 1995
Water Absorption by Weight (lb/ft ²)			
Accelerated Age Testing:			
Service Temperature (°F)(°C) Low High intermittent	°F -94 221	°C -70 105	
Flame Resistance (More Below)	Pass 2 mm and thicker 5mm thick / 13mm thick: Extinguishes and melts from flame		FMVSS302 (<100mm/min) Horizontal Burn Rate - ISO 7214 1998
Industry and OEM Specifications: Jacobs and Thompson Inc. certifies that the following product meets the required specifications;	FAR – 25.853 F 1a. 1ii JAR – 25.853 F 1a. 1ii CAA8 /2 – 2.2b <i>With Exceptions</i> FMVSS.302 – 2mm and thicker DIN 4102 pt14 - B1 - 6 to 20 mm UL94 HF1 + HF2 - 3 to 13 mm ISO 7214 1998		

REV. 002
REV. DATE: 09/30/18
ISO 9001:2015 • ISO/IEC 17025:2017

Jacobs & Thompson cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of the information or the safety and suitability of our products, either alone or in combination with other products. Unless otherwise agreed in writing, we sell the products without warranty and users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purpose.

Head Office: 89 Kenhar Drive,
Ontario M9L 2R3
Tel: (416) 749-0600
info@foamparts.com
FoamParts.com