

Technical Data Sheet

Foam | Polyethylene| LD24FR

Plastazote LD24FR is a closed-cell, cross-linked polyethylene foam blended with a flame retardant. It has a nominal density of 1.5 PCF / 24 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 0.3 mm and a thermal conductivity of 0.0351 W/m.K.

Item	Specs		Test Method
Grade			
Density (PCF) (kg/m ³)	1.5 PCF / 24 kg/m ³		BS ISO 7214 1998
Compression Deflection (CFD) (psi) (kPa) @10% @25% @40% @50%	4.6 psi / 32 kPa 7.4 psi / 51 kPa 12 psi / 83 kPa 16.6 psi / 115 kPa		BS ISO 7214 1998
Shore Hardness OO (Durometer)	49		ISO 868 1985
Compression Set (%) 22hr, 23°C @25%: ½ hr recovery - 24 hrs recovery @50%: ½ hr recovery - 24 hrs recovery	13 5.5 27 19		BS ISO 7214 1998 25mm cell-cell
Tensile Strength (psi)(kPa)	34.8 psi / 240 kPa		ISO 7214 1998
Elongation (%)	115		ISO 7214 1998
Tear Strength Resistance (N/m)	475		BS EN ISO 8067 1995
Water Absorption by Weight (lb/ft ²)			
Accelerated Age Testing:			
Service Temperature (°F)(°C) Low High intermittent	°F -94 212	°C -70 100	
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 FMVSS302 - 2 mm and thicker <i>With Exceptions:</i> DIN 4102 pt14 – B1: 6 -20mm thick UL94 HF1 + HF2: 3 - 13mm thick ISO 7214 1998		

REV. 002

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ISO 9001:2015 • ISO/IEC 17025:2017

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