

**Data Sheet** **LD45 FR**

Data Sheet Type	Final
Material Reference	LD45 FR
Polymer	PE
Date Issued	01/06/26



**Description**

LD45 FR Plastazote is a Flame Retardant Inert Polyethylene Foam, functional and aesthetically pleasing for a number of industries including but not limited to: Automotive, Packaging, Leisure, Cosmetics & Toys. This grade has a density of 45Kg/m3 and is available in a variety of colours. LD45 is available in endless Sheet/Roll sizes from 1mm thick and can be fabricated to virtually any thickness.

Meets the following flammability standards:

FAR 25.853 CS 25.853 - 12 Second Test Pass at 3mm and 12m

UL94 HF-1 Pass at 3mm

The material meets the technical requirements of Def Stan 81-116 Type GP Grade C.

Specifications	Values	Test Methods
Cell Diameter	0.4 mm	BS ISO 7214 2012
Compression Set 25% Compression (22 Hours @ 23°C) 1/2 Hour Recovery	8 %	BS ISO 7214 2012
Compression Set 25% Compression (22 Hours @ 23°C) 24 Hour Recovery	3 %	BS ISO 7214 2012
Compression Stress/Strain - 25%	88 Kpa	BS ISO 7214 2012
Compression Stress/Strain - 50%	162 Kpa	BS ISO 7214 2012
Density	45 Kg/m3	BS ISO 7214 2012
Highest Recommended Working Temperature	105 °C	None
Lowest Recommended Working Temperature	-70 °C	None
Shore Hardness (Shore OO)	61 ° Shore	ISO 868:2003
Tear Strength	2404 N/m	BS EN ISO 8067 2008
Tensile Elongation	159 %	BS ISO 7214 2012
Tensile Strength	449 Kpa	BS ISO 7214 2012
Thermal Conductivity	0.038 W/m.K	ISO 8301 1991
Water Absorption	1 %	ISO 2896: 2001

**Purposes**



Flame Retardant



Water Resistant

**Important Notes about this Material Data Sheet**

This datasheet has been carefully compiled to advise you, our customer, in the best possible way. The information, figures, test values, and data correspond to actual engineering standards and are the result of many years of tests and trials. As individual operating conditions influence the application of each product, the information supplied in this datasheet can only be seen as a rough guideline. In every case it is the sole responsibility of the customer to evaluate his individual requirements, in particular whether the specified properties of our products are sufficient for the intended use. This datasheet is subject to alteration without prior notice. All mentioned values contained herein are guiding values representing long-term experience averages. Please be aware that Test Results for individual Material Batches will only be provided if requested at the time of order and may be subject to additional charges and/or lead times. This Data Sheet supersedes all previous data sheets and any other data previously provided either Verbally, Electronic or Written, with reference to the above Material Grade.