

Data Sheet

LD45 FR

Data Sheet Type Final

Material Reference LD45 FR

Polymer PE

Date Issued 18/04/25



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/m ³ | 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.