

Data Sheet

LD24 Plastazote® Closed Cell Polyethylene Foam Sheets & Rolls

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| Data Sheet Type | Final |
| Material Reference | LD24 |
| Polymer | PE |
| Date Issued | 21/11/24 |



Description

LD24 Plastazote is an 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 24Kg/m³ and is available in a variety of colours. LD24 is available in endless Sheet/Roll sizes from 1mm thick and can be fabricated to virtually any thickness.

| Specifications | Values | Test Methods |
|--|----------------------------------|---------------------|
| Cell Diameter | 0.3 mm Typical | BS ISO 7214 2012 |
| Compression Set 25% Compression (22 Hours @ 23°C) 1/2 Hour Recovery | 13 % | BS ISO 7214 2012 |
| Compression Set 25% Compression (22 Hours @ 23°C) 24 Hour Recovery | 5 % | BS ISO 7214 2012 |
| Compression Set 50% Compression (22 Hours @ 23°C) 1/2 Hour Recovery | 27 % | BS ISO 7214 2012 |
| Compression Set 50% Compression (22 Hours @ 23°C) 24 Hour Recovery | 19 % | BS ISO 7214 2012 |
| Compression Stress/Strain - 10% | 34 Kpa | BS ISO 7214 2012 |
| Compression Stress/Strain - 25% | 53 Kpa | BS ISO 7214 2012 |
| Compression Stress/Strain - 40% | 85 Kpa | BS ISO 7214 2012 |
| Compression Stress/Strain - 50% | 118 Kpa | BS ISO 7214 2012 |
| Density | 24 Kg/m ³ Nominal | BS ISO 7214 2012 |
| FMVSS302 Pass Thickenss | 12 mm | FMVSS302 |
| Highest Recommended Working Temperature | 100 °C Maximum | None |
| Horizontal Burn Rate @ 13mm Thick | 1.5 mm/sec | None |
| Horizontal Burn Rate @ 5mm Thick | 2.1 mm/sec | None |
| Lowest Recommended Working Temperature | -70 °C Minimum | None |
| Shore Hardness (Shore OO) | 50 ° Shore | ISO 8301 1991 |
| Tear Strength | 495 N/m | BS EN ISO 8067 2008 |
| Tensile Elongation | 130 % | BS ISO 7214 2012 |
| Tensile Strength | 320 Kpa | BS ISO 7214 2012 |
| Thermal Conductivity | .0392 W/m.K Mean Temp of 10°C | ISO 8301 1991 |

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.