MacLellan
Polymers to Industry

Data Sheet	LD33 Plastazote® Closed Cell Polyethylene Foam Sheets & Rolls
Data Sheet Type	Final
Material Reference	LD33
Polymer	PE
Date Issued	29/11/26

Description

LD33 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 33Kg/m3 and is available in a variety of colours. LD33 is available in endless Sheet/Roll sizes from 1mm thick and can be fabricated to virtually any thickness.
The material meets the technical requirements of Def Stan 81-116 Type GP Grade B.

Specifications	Values	Test Methods
Cell Diameter	0.37 mm Typical	BS ISO 7214 2012
Compression Set 25% Compression (22 Hours @ 23°C) 1/2 Hour Recovery	10 %	BS ISO 7214 2012
Compression Set 25% Compression (22 Hours @ 23°C) 24 Hour Recovery	3 %	BS ISO 7214 2012
Compression Set 50% Compression (22 Hours @ 23°C) 1/2 Hour Recovery	22.5 %	BS ISO 7214 2012
Compression Set 50% Compression (22 Hours @ 23°C) 24 Hour Recovery	13.5 %	BS ISO 7214 2012
Compression Stress/Strain - 10%	51 Kpa	BS ISO 7214 2012
Compression Stress/Strain - 25%	69 Kpa	BS ISO 7214 2012
Compression Stress/Strain - 40%	102 Kpa	BS ISO 7214 2012
Compression Stress/Strain - 50%	137 Kpa	BS ISO 7214 2012
Density	33 Kg/m3 Nominal	BS ISO 7214 2012
FMVSS302 Pass Thickenss	7 mm	FMVSS302
Highest Recommended Working Temperature	100 °C Maximum	None
Horizontal Burn Rate @ 13mm Thick	1.0 mm/sec FMVSS302 Pass @ >7mm Thick	None
Horizontal Burn Rate @ 5mm Thick	1.6 mm/sec	None
Lowest Recommended Working Temperature	-70 °C Minimum	None
Shore Hardness (Shore OO)	58 ° Shore	ISO 8301 1991
Tear Strength	785 N/m	BS EN ISO 8067 2008
Tensile Elongation	155 %	BS ISO 7214 2012
Tensile Strength	440 Kpa	BS ISO 7214 2012
Thermal Conductivity	0.0405 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.