Data Sheet	P151 Closed Cell 30Kg Polyethylene Foam Sheets & Rolls

Data Sheet Type	Final
Material Reference	P151
Polymer	PE
Date Issued	20/06/25

Description

P151 is a Closed Cell, Cross-Linked, Chemically Blown 30Kg/M3 Polyethylene that can be supplied in Sheets & Rolls and Fabricated to virtually any shape or size. Typically applications include but are not limited to Automotive, Toys & Leisure, Medical & Orthopedics.

Specifications	Values	Test Methods
Compression Set 25% Compression (22 Hours @ 23°C) 1/2 Hour Recovery	12 %	BS ISO 7214 2012
Compression Set 25% Compression (22 Hours @ 23°C) 24 Hour Recovery	4 %	BS ISO 7214 2012
Compression Set 50% Compression (22 Hours @ 23°C) 1/2 Hour Recovery	28 %	BS ISO 7214 2012
Compression Set 50% Compression (22 Hours @ 23°C) 24 Hour Recovery	16 %	BS ISO 7214 2012
Compression Stress/Strain - 10%	44 Kpa	BS ISO 7214 2012
Compression Stress/Strain - 25%	62 Kpa	BS ISO 7214 2012
Compression Stress/Strain - 50%	122 Kpa	BS ISO 7214 2012
Density	30 Kg/m3 Nominal	BS ISO 7214 2012
Elongation at Break	189 %	ASTM D412
FMVSS302 Pass Thickenss	55 mm	FMVSS302
Highest Recommended Working Temperature	90 °C Maximum	None
Lowest Recommended Working Temperature	-60 °C Minimum	None
Shore Hardness (Shore OO)	54 ° Shore	ISO 8301 1991
Tensile Strength	282 Kpa	BS ISO 7214 2012
Thermal Conductivity	0.0390 W/m.K 10°C Mean Temperature	ISO 8301 1991
Water Absorption	1 %	ASTM D1056

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.