MacLellan
Polymers to Industry

Data Sheet	P151 FR

Data Sheet Type	Final
Material Reference	P151 FR
Polymer	PE
Date Issued	10/11/26

Description

P151 FR is a Closed Cell, Cross-Linked, Chemically Blown 30Kg/M3 Flame Retardant 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.

The material meets the following Flammability standards:

FMVSS302, UL94 HF-1, EN 11925-2 CLASS E, DIN 4102-1 CLASS B2

Specifications	Values	Test Methods
Compression at 10%	43 Kpa	BS EN ISO 845
Compression Set 25% Compression (22 Hours @ 23°C) 1/2 Hour Recovery	17 %	ISO 1856
Compression Set 25% Compression (22 Hours @ 23°C) 24 Hour Recovery	5 %	ISO 1856
Compression Set 50% Compression (22 Hours @ 23°C) 1/2 Hour Recovery	28 %	ISO 1856
Compression Set 50% Compression (22 Hours @ 23°C) 24 Hour Recovery	18 %	ISO 1856
Density	33 Kg/m3	ISO 845
Elongation at Break	175 %	DIN EN ISO 1798
FMVSS302 Pass Thickenss	> 10 mm	FMVSS302
Highest Recommended Working Temperature	90 °C	None
Lowest Recommended Working Temperature	-60 °C	None
Shore Hardness (Shore OO)	54 ° Shore	ASTM D2240
Tensile Strength	274 Kpa	DIN EN ISO 1798
Thermal Conductivity	0.038 W/m.K	ISO 8301 1991
Water Absorption	1 %	None

Purposes

Flame Retardent

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.