MacLellan
Polymers to Industry

Data Sheet	J601 Carbon Fibre Based Material to BS7531 Grade X
Data Sheet Type	Final
Material Reference	J601
Polymer	Carbon Fibre
Date Issued	30/08/25

Description

A premium quality Grade X Jointing based on Carbon Fibre with a high quality Nitrile Rubber Binder. This material has excellent mechanical properties and a wide range of approvals including TA-Luft, API 607 Fire Safe and BS7531 Grade X

Specifications	Values	Test Methods
BS7531 Grade	X	BS7531
Compression	11 %	ASTM F36
Density	1.57 g/cc	None
Gas Leakage	1 cc/min	BS7531
Highest Recommended Working Temperature	425 °C	None
Recovery	62 %	ASTM D792
Residual Stress(BS7531 300°C)	25 MPA	BS7531
Tensile Strength	13 MPA	ASTM D412
Thickness Increase (ASTM Fuel B)	2.5 %	None
Thickness Increase (ASTM Oil 1)	1 %	None
Thickness Increase (IRM Oil 903)	2.5 %	None

Purposes

Chemical Resistant

Oil Resistance

Petrol Resistance

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.