

Data Sheet

MacFire Neoprene

Data Sheet Type	Final
Material Reference	MacFire Neoprene
Polymer	CR
Date Issued	30/10/24



Description

MacFire Neoprene is a high performance Neoprene material meeting Fire Resistant standards UL94 V0 and UNE 23727 M2 and confirming with smoke opacity and toxicity standards NF F16101 and NF X 70100 F5.

In addition the material is Anti-static, animal and vegetable Oil Resistant, Thermal and Acoustically Insulative.

The material has exception wear resistance making it suitable for use in a variety of applications in quarrying and mining and offshore environments, and can also be used as a matting in high risk areas.

Manufactured with a fabric pattern. Other options available subject to minimum production batches.

Specifications	Values	Test Methods
Abrasion Resistance	200 mm3	ISO 4649
Accelerated Ageing - Change in Elongation at Break (72 Hours @ 70°C)	-25 %	ASTM D573
Accelerated Ageing - Change in Hardness (72 Hours @ 70°C)	5 ° Shore	ASTM D573
Accelerated Ageing - Change in Tensile Strength (72 Hours @ 70°C)	-15 %	ASTM D573
Compression Set	20 %	ISO 815
Density	1.47 g/cm 3	None
Elongation at Break	> 250 %	ISO 37
Highest Recommended Working Temperature	120 °C	None
Lowest Recommended Working Temperature	-30 °C	None
Oil Swell IRM901	10 %	ISO 1817
Oil Swell IRM903	55 %	ISO 1817
Shore Hardness (Shore A)	70 ° Shore	ASTM D2240
Surface Resistance	2.5x10 ¹⁰ Ohm(s)	None
Tear Resistance	> 20 N/mm	ISO 34
Tensile Strength	> 10 MPA	ISO 37
Volume Resistivity	1.2x10 ⁸ Ohm M	None



Purposes



Flame Retardant



Oil Resistance



Wear 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.