MacLellan
Polymers to Industry

Data Sheet	Expanded Nitrile Sponge

Data Sheet Type	Final
Material Reference	Nitrile Sponge
Polymer	NBR
Date Issued	04/12/24

Description

Expanded Nitrile Sponge excellent resistance to oil and fuels with the added benefits of high tensile strength, wide temperature range and low compression set.

The material meets UL94 HF1 > 2mm Flame Resistance standards and conforms to ASTM D1056-07 2B2 A1 B2 C M P2

Specifications	Values	Test Methods
Compression Deflection	35 - 65 Kpa	None
Compression Set 50% Compression (22 Hours @ 23°C) 24 Hour Recovery	19 %	ASTM D1056
Density	150 kg/cm3	None
Elongation at Break	> 150 %	None
Flame Resistance	UL94 HF1 > 2mm	UL94
Highest Recommended Working Temperature	90 °C	None
Intermittent Working Temperature	110 °C	None
Lowest Recommended Working Temperature	-40 °C	None
Shore Hardness (Shore OO)	40 - 55 ° Shore	None
Tensile Strength	1000 Kpa	None
Water Absorption	5 %	ASTM D1056

Purposes

Flame Retardent

Oil 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.