Data Sheet	P581 Expanded Neoprene Sponge Rubber to UL94-HF1
Data Sheet Type	Final
Material Reference	P581
Polymer	CR Flame Retardant
Date Issued	22/11/26

Description

PL581 is a high quality Neoprene Sponge with excellent Flame Retardant(conforming to UL94-HF1) & Weathering Properties. Typically used in applications such as Enclosures, Glazing Strips, and Expansion Joints in high technology industries including Automotive, Electronics and Construction.

Specifications	Values	Test Methods
CFC Free	Yes	None
Colour	Grey	None
Compression Set 25% Compression (22 Hours @ 23°C) 1/2 Hour Recovery	2-4 %	BS ISO 7214 2012
Compression Set 50% Compression (22 Hours @ 23°C) 1/2 Hour Recovery	15-35 %	BS ISO 7214 2012
Compression Stress/Strain - 25%	20-40 Kpa	BS ISO 7214 2012
Compression Stress/Strain - 50%	50-70 Kpa	BS ISO 7214 2012
Density	130-170 Kg/m3	BS ISO 7214 2012
Elongation at Break	150-200 %	ASTM D412
FMVSS302 Pass Thickenss	3 mm	FMVSS302
HCFC Free	Yes	None
Highest Recommended Working Temperature	80 °C	None
Intermittent Working Temperature	100 °C	None
Lowest Recommended Working Temperature	-40 °C	None
Shore Hardness (Shore OO)	40-50 ° Shore	ISO 8301 1991
Shrinkage	5-10 %	ASTM D1056
Tensile Strength	530-600 Kpa	BS ISO 7214 2012
UL94-HF1 Pass Thickness	3 mm	None
Water Absorption	1-2 %	ASTM D1056

Purposes

Flame Retardent

Weather 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.