MacLellan
Polymers to Industry

Data Sheet	P580 Expanded Neoprene Sponge Rubber

Data Sheet Type	Final
Material Reference	P580
Polymer	CR
Date Issued	13/11/26

Description

PL580 is a high quality Neoprene Sponge with excellent Flame Retardant & Weathering Properties. Typically used in applications such as Enclosures, Glazing Strips, and Expansion Joints in high technology industries including Automotive, Electronics and Construction. The material is CFC and HCFC Free.

Specifications	Values	Test Methods
Accelerated Ageing - Change in Compression Deflection (168 Hours @ 70°C)	6.9 %	ASTM D1056
ASTM D1056-14 Classification	2C2 B3 M	ASTM D1056
Compression Deflection	33.6 %	ASTM D1056
Compression Set 25% Compression (22 Hours @ 23°C) 24 Hour Recovery	3.5 % +/-1.5%	BS ISO 7214 2012
Compression Set 50% Compression (22 Hours @ 23°C) 24 Hour Recovery	25 % +/-10%	BS ISO 7214 2012
Compression Stress/Strain - 25%	47 Kpa +/-12.5	BS ISO 7214 2012
Compression Stress/Strain - 50%	95 Kpa +/-25	BS ISO 7214 2012
Density	165 Kg/m3 +/-25	BS ISO 7214 2012
Elongation at Break	180 % Minimum	ASTM D412
FMVSS302 Pass Thickenss	3 mm Minimum	FMVSS302
Highest Recommended Working Temperature	75 °C Maximum	None
Intermittent Working Temperature	110 °C Short Bursts Only	None
Lowest Recommended Working Temperature	-40 °C Minimum	None
Shore Hardness (Shore OO)	45 ° Shore +/-5°	ISO 8301 1991
Shrinkage	6 % +/-2%	ASTM D1056
Tensile Strength	500 Kpa	BS ISO 7214 2012
Water Absorption	2 % Maximum	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.