MacLellan
Polymers to Industry

Data Sheet	P590 Expanded EPDM Sponge Rubber

Data Sheet Type	Final
Material Reference	P590
Polymer	EPDM
Date Issued	21/11/26

Description

P590 is a high quality EPDM Sponge with excellent weathering and water tight 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)	9.5 %	ASTM D1056
ASTM D1056-14 Classification	2A2 B3	None
Compression Deflection	36.1 %	ASTM D1056
Compression Set	20 - 40 %	ASTM D1056
Compression Stress/Strain - 25%	30 - 50 Kpa	BS ISO 7214 2012
Compression Stress/Strain - 50%	60 - 80 Kpa	BS ISO 7214 2012
Density	120 +/- 20 Kg/m3	ASTM D3575
Elongation at Break	150 - 200 %	ASTM D412
FMVSS302 Pass Thickenss	3mm	FMVSS302
Highest Recommended Working Temperature	80 °C	None
Intermittent Working Temperature	90 °C	None
Lowest Recommended Working Temperature	-40 °C	None
Tensile Strength	390 - 450 Kpa	ASTM D1056
Water Absorption	1 - 2 %	ASTM D1056

Purposes

Flame Retardent

Ozone Resitance

Water 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.