

Data Sheet

P590 Expanded EPDM Sponge Rubber

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| Data Sheet Type | Final |
| Material Reference | P590 |
| Polymer | EPDM |
| Date Issued | 02/06/26 |



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 Resistance



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.