

Data Sheet

P581 Expanded Neoprene Sponge Rubber to UL94-HF1

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|--------------------|--------------------|
| Data Sheet Type | Final |
| Material Reference | P581 |
| Polymer | CR Flame Retardant |
| Date Issued | 24/07/24 |



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.