
CELLULAR SILICONE ELASTOMER SHEETING

Description: Cellular Silicone Rubber sheet in a variety of thickness.

Grade: 0,25gr/cm³

Colours: White.

Temperature Range: -60°C to 230°C (-76°F to 446°F) and up to 250°C (482°F)
intermittent

Specifications: These products meet the flammability requirements of FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv) and (a)(1)(v) horizontal flammability test and Automotive Standard PART 571FMVSS302.

The sponge is closed cell with low water absorption and dust ingress protection to IP65.

Environment Resistance: Silicone rubber products have an excellent resistance to ozone, oxidation, ultraviolet light, corona discharge, cosmic radiation, ionizing radiation and weathering in general.

Availability: Supplied in continuous roll lengths. Widths of 1200mm (standard). Pressure sensitive adhesive backing. Punched and Water Jet gaskets.

General Characteristics:

Test	Result	Standard
Brittle Point	-80°C (-112 °F)	ASTM D746
Limiting Oxygen Index	24.0 %	BS 2782 Part 1
Thermal Conductivity	6.4x10 ⁻² W.m ⁻¹ .K ⁻¹	BS 874 Part 2
Radiation Resistance	>10 Grays (10 Rads) typical	

Applications: Seals, gaskets, joints and strips used in Automotive, Electronics, Energy. Construction, Heating and Ventilation (HVAC), Industrial, Insulations, Lighting and Marine

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Characteristics:

Property	Test Method	Units	Typical value
Density	BSENISO 845 ASTM D3574	kg.m ⁻³ lb.ft ⁻³	256 16.0
Hardness	ASTM D2240	Shore OO ° Shore 'A'	42 (±5) 5
Compr. Stress 40% Compr. Stress 25%	BSENISO 3386 part 1,2 ASTM D 1056	kPa psi	90 6.4
Tensile strength	BSENISO 1798 ASTM D412	MPa psi	0.6 87
Elongation at break	BSENISO 1798 ASTM D412	%	145
Compression set: 24 hours recovery 22 hours 70°C 158°F	BSENISO 1856	%	12.0
22 hours 100°C 212°F	ASTM D1056	%	14.5
Water Absorption	ASTM D1056	<5%	<5

Extra information:

*Density measured on 25 mm diameter cord sample. The density of samples of different sizes will be different from that stated here. **Hardness measured on 10 mm thick samples. At less than 10mm the measured hardness will increase with density.

The Shore A values are provided as a guideline or comparison to solid materials and as such are not designed for use in specifications.

The compressive stress on samples of different dimensions, especially thickness may vary from that quoted here. For further information about physical properties for other sample sizes, please contact the technical department.