

Silicone Sponge Sheeting Datasheet

Product Code: RC02101

Product Description

A closed cell silicone sponge with low water absorption and dust ingress protection up to IP65, subject to design.

Our silicone sponge has a maximum recommended compression of 30% of initial thickness. Sealing with less than 30% compression helps reduce compression set and promotes product longevity. It should not be compressed by more than 50% of its original thickness, as the cells may break under such compression.

The density range in white has been approved by the WRAS (Water Regulations Advisory Service) for use in contact with potable water at temperatures up to 85°C.

They all 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 571 FMVSS302.

Accreditations

- FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv)(a)(1)(v) horizontal flammability test
- If tested would meet UL94HB
- Automotive Standard PART 571 FMVSS 302
- REACH compliant and ROSH compliant
- Capable of meeting ASTM D1056 2A2; ASTM 6576 Grades B & C
- WRAS approved



See page 2 for test data...



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The information contained on this product information sheet is to be used as guidance. The advice is given in good faith and does not constitute any guarantee or recommendation for suitability. The Rubber Company cannot be held liable for any damage caused by incorrect installation. We hereby reserve the right to change the technical information herewith without notification or prior agreement.

Technical Specification

Property	Test Method	Values					
Grade	-	P10	P16 (TRC16)*	P20	P24	P27	P33
Density	ISO 845 ASTM D3574	180kg/m ³	250kg/m ³	300kg/m ³	400kg/m ³	440 kg/m ³	515 kg/m ³
Hardness (Shore OO)	ASTM D2240	35° ±5°	47° ±5°	55° ±5°	65° ±5°	70° ±5°	80° ±5°
Hardness (Shore A)	ASTM D2240	<5	5	13	17	24	30
Tensile Strength	ISO 1798 ASTM D412	0.6 MPa	0.6 MPa	0.75 MPa	0.75 MPa	1.5 MPa	2.0 MPa
Elongation at Break	ISO 1798 ASTM D412	140%	150%	120%	120%	130%	130%
Compression Stress 40% Strain	ISO 1798 Part 1, 2 ASTM D1056	50 kPa	75 kPa	120 kPa	165 kPa	220 kPa	380 kPa
Compression Set (50%, 22hrs @ 70°C, 24hrs recovery)	ISO 1856	14%	2%	2%	2%	1%	1%
Compression Set (50%, 22hrs @ 100°C, 24hrs recovery)	ASTM D1056	36%	10%	5%	4%	2%	2%
Water Absorption	ASTM D1056	<5%	0.2%	<5%	<5%	<5%	2%
Temperature Range	-	-60°C to 230°C (intermittent 250°C)					
Brittle Point	ASTM D746	-80°C					
Limiting Oxygen Index	BS 2782 Part 1	24%					
Thermal Conductivity	BS 874 Part 2	0.070 W.0.1.K.1 / 6,4x10 ⁻² W.m ⁻¹ .K ⁻¹					
Radiation Reistance	-	>10 ⁵ Grays (10 ⁷ Rads), typical					

*TRC16 is shown on our sample card.



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