

# MSS03/002 – Solid Silicone Rubber 60 shore

## Specifications

Our translucent range has been tested to and is in accordance with the American Food and Drugs Administration (FDA) 21 CFR 177-2600, BFR XV Empfehlung and colour bleed test according to BFR Empfehlung part B11 & Directive EC 1935/2004.

Translucent sheet has been approved by WRAS (Water Regulations Advisory Service) for use with potable water temperatures up to 85°C (185°F). The listing number is 1310541.

This product meets the flammability requirements of FAR 25/JAR 25/CS 25 Appendix F, part 1, (a)(1)(iv) and (a)(1)(v) horizontal flammability tests and Automotive Standard PART 571FMVSS302.

## Environmental Resistance

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

## General Characteristics

Brittle Point	-80 °C (-112 °F)	ASTM D746
Limiting Oxygen Index	24%	BS 2872 Part 1
Thermal Conductivity	0.24 W.m <sup>-1</sup> .K <sup>-1</sup>	VDE 0304
Radiation Resistance	>10 <sup>5</sup> grays (10 <sup>7</sup> rads)	
Dielectric Strength	23 KV.mm <sup>-1</sup>	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor @ 50c/s	3 x 10 <sup>-4</sup>	VDE 0303
Volume Resistivity	3 x 10 <sup>15</sup> Ω.cm	VDE 0303

## Typical Properties – 60 shore Sheet

Hardness	60±5	Shore A
Compression Set	10%	22hrs @ 300 °C
Compression Set	13%	24hrs @ 150 °C
Tear Strength	14.2	N/mm
Elongation at Break	340	%
Tensile Strength	1146	Psi
Density	1.2	SG
Operating Temperature	-60 °C to 230 °C (-76 °F to 446 °F). Intermittent to 250 °C (482 °F).	

*This Data sheet relates to the material as supplied. The information contained herein is given in good faith, but no liability will be accepted by the Company in relation to same. The acquisition of additional information may necessitate revisions to parts or all of this Data Sheet, and such information will be supplied as it becomes available. As the Company's products are used for a multiplicity of purposes, and as the Company has no control over the method of their application or use, the Company excludes all conditions or warranties, express or implied, by statute or otherwise, as to their fitness for any particular purpose. Any technical co-operation between the Company and the Customer is given for the Customers assistance only without liability on the part of the Company.*