

# MATERIAL DATA SHEET

## FDA COMPLIANT SILICONE RUBBER SHEETING 60° SHORE 'A'

White (W049): Translucent (T050): Red (R089): Black (B60):  
Blue (B62) – Colour Match No. CM435

PROPERTY	TEST METHOD	UNITS	SPECIFICATION LIMITS	TYPICAL VALUE
HARDNESS	ASTM D2240 DIN ISO 7619-1	°SHORE A	60° (+/-5)	60
TENSILE STRENGTH	ISO 37 type 1 ASTM D412 Die C DIN 53504 type S1	MPa psi	7.0 min 1015 min	10 1450
ELONGATION @ BREAK	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1	%	280 min	400
TEAR STRENGTH	ASTM D624 die B	N/mm lb/in	12.5 min 71.4 min	22 125
COMPRESSION SET 24hrs @ 150°C	BS 903 pt A6 type B DIN/ISO 815 type B	%	30 max	13
22hrs @ 300°F	ASTM D395 method B type 2	%	30 max	10
TEMPERATURE RANGE	-60°C to +230°C (Continuous) +250°C (Intermittent)			
GENERAL THICKNESSES	0.3, 0.5, 0.8, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0 & 12.0mm (Check with our Sales Office for specific availability)			

All Silicone sheet products supplied by J-Flex comply with these regulations:-



Food Safety  
EC No. 1935:2004

ISSUE 15: January 2015

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GENERAL CHARACTERISTICS		
TEST	RESULT	STANDARD
<b>Brittle Point</b>	-80°C (-112°F)	ASTM D746
<b>Limiting Oxygen Index</b>	24.0%	BS 2782 Part 1
<b>Thermal Conductivity</b>	0.24 W.m <sup>-1</sup> .K <sup>-1</sup>	VDE 0304
<b>Dielectric Strength</b>	23 kV.mm <sup>-1</sup>	VDE 0303
<b>Dielectric Constant</b>	2.9	VDE 0303
<b>Dissipation Factor</b>	3x10 <sup>-4</sup>	VDE 0303
<b>Volume Resistivity</b>	3x10 <sup>15</sup> Ω.cm	VDE 0303
<b>Radiation Resistance</b>	>10 <sup>5</sup> Grays (10 <sup>7</sup> Rads) typical	
<b>Coefficient of Thermal Expansion</b>	Between 300 and 250x10 <sup>-6</sup> cm/cm/°C (Typical range)	

These sheetings have been fully post cured and all the ingredients used to produce these sheetings are listed in FDA 21 CFR 177. 2600.

We manufacture our FDA materials in accordance with FDA guidelines set out in 21 CFR 177.2600 and the manufactured materials have been tested to, and comply with the tests listed in 21 CFR 177.2600 (d) to (h).

This makes them suitable for contact with dry, aqueous and fatty foods defined by the FDA.

As stated in 21 CFR 177.2600 it is recommended that the manufactured article is thoroughly cleansed prior to first use in contact with food. Empfehlung and colour bleed test according to BfR Empfehlung part B 11 & Directive EC 1935/2004.

We confirm that our Silicone Products are carefully produced to comply with European Commission Regulations (EC)2023/2006 “good manufacturing practice for materials and articles intended to come into contact with food”.

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

**WRAS APPROVAL NO: 1310541 (pending reapproval):** Approved for cold & hot potable water use up to 85°C in accordance to BS 6920.

**ISSUE 15**

**January 2015**