

J-FLEX 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)	62
TENSILE STRENGTH	ISO 37 type 1 ASTM D412 Die C DIN 53504 type S1	MPa	7.0 min	7.9
		psi	1015 min	1146
ELONGATION @ BREAK	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1	%	280 min	340
TEAR STRENGTH	ASTM D624 die B	N/mm lb/in	12.5 min 71.4 min	14.2 81.1
COMPRESSION SET 24hrs @ 150°C 22hrs @ 300°F	BS 903 pt A6 type B DIN/ISO 815 type B ASTM D395 method B type 2	%	30 max	13
		%	30 max	10
THERMAL CONDUCTIVITY	VDE 0304		0.24 W.m ⁻¹ .K ⁻¹	
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:-



ISSUE 14: January 2014

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Engineering Rubber Components & Specialised Sheeting Products

Units 1 & 2, London Road Business Park, Retford,
Nottinghamshire, DN22 6HG, United Kingdom

tel: +44 (0) 1777 712 400 fax: +44 (0) 1777 712 409

www.j-flex.co.uk



These sheetings have been fully post cured and all the ingredients used in production 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.

Also complies with the BFR XV Empfehlung and colour bleed test according to BfR Empfehlung part B 11 & Directive EC 1935/2004 regulations for contact with foodstuffs.

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 25/CS 25 Appendix F, Part 1, (a)(1)(iv) & (a)(1)(v) horizontal flammability tests and Automotive Standard PART 571FMVSS302.

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

ISSUE 14

January 2014