

# Product Data Sheet

## FDA Compliant Solid Silicone Elastomer Rolls

Our general-purpose range of silicone rolls.

The range has been tested to and is in compliance with the American Food and Drugs Administration (FDA) 21 CFR 177-2600, BfR XV Empfehlung and colour bleed test according to BfR-Empfehlung part B 11 & Directive EC 1935/2004.

### Additional compliance:

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 tests and Automotive Standard PART 571FMVSS302.

### Environmental Resistance:

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



### Temperature Range:

-60°C (-76°F) to +230°C (+446°F) and up to 250°C (482°F) intermittent.

### Availability:

- Widths of 1200mm (standard).
- Pressure sensitive adhesive backing.
- Custom cut gaskets.
- Standard colours: Red, White.
- Translucent available at extra cost.
- Flame retardant in Grey only.

PROPERTY	UNITS	JFGP30*	JFGP40	JFGP50	JFGP60	JFGP70	JFGP80*	TEST METHOD
		TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	TYPICAL VALUE	
Hardness	Shore A (±5)	30	40	50	60	70	80	ISO 48-4
Tensile Strength	MPa psi	8.0 1160	9.0 1305	9.0 1305	10.0 1450	10.0 1450	8.0 1160	ISO 37 type 2
Elongation to Failure	%	550	525	450	400	320	300	ISO 37 type 2
Tear Strength	N/mm (lb/in.)	16.0 91	23 130	20 114	22 125	20 115	20 114	ASTM D624 die B
Compression Set 24 hours @150°C	%	23	25	15	13	9	18	ISO 815 type B
Compression Set 22 hours @300°C	%	20	22	16	10	10	16	ASTM D395 method B type 2

Standard stock offering is 60° Shore, in thicknesses 1mm to 12mm (other thicknesses to order)

*continued  
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**Dimensional Tolerances:** are typically class 3 as standard, unless otherwise stated. Class 2 and Class 1 tolerances on request, in most instances.

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Certificate No. RS 27920

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TEST	RESULT	STANDARD
Brittle Point	-80°C (-112 °F)	ASTM D746
Limiting Oxygen Index	24.0%	BS 2782 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) typical	

## Dimensional Tolerances:

THICKNESS (mm)	ST2
0 - 1	±0.2
1 - 1.6	±0.25
1.6 - 2.5	±0.35
2.5 - 4	±0.4
4 - 6.3	±0.5
6.3 - 10	±0.7
10 - 16	±0.8%

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