

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.

Translucent, Blue, White, Red and Black have been approved by WRAS (Water Regulations Advisory Service) for use with potable water at temperatures up to 85°C (185°F) - Listing number is 2011533.

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), 1500mm and 1800mm.
- Pressure sensitive adhesive backing.
- Custom cut gaskets.
- Standard colours: Red Iron Oxide, Black, White, Blue.
- Translucent available at extra cost.
- Capability to colour match.

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	DIN ISO 7619-1
Tensile Strength	MPa psi	8.0 1150	9.0 1300	9.0 1300	10.0 1450	10.0 1450	7.0 1015	ISO 37 type 2
Elongation to Failure	%	500	525	450	400	320	215	ISO 37 type 2
Tear Strength	N/mm (lb/in.)	16.0 91	23 130	18 100	22 125	20 115	17 88.5	ASTM D624 die B
Compression Set 24 hours @150°C	%	23	25	15	13	9	18	DIN/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 0.3mm to 12mm (other thicknesses to order)
For 40° translucent: our standard stock offerings are thicknesses 1mm to 8mm

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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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J-FLEX Innovative Rubber Solutions

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

tel: +44 (0) 1777 712400 fax: +44 (0) 1777 712409 email: sales@j-flex.com web: www.j-flex.com



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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 ⁻¹ .K ⁻¹	VDE 0304
Radiation Resistance	>10 ⁵ Grays (10 ⁷ Rads) typical	
Dielectric Strength	23 kV.mm ⁻¹	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor	3x10 ⁻⁴	VDE 0303
Volume Resistivity	3x10 ¹⁵ Ω.cm	VDE 0303

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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