



Solid Silicone Elastomer **Extrusions & Mouldings**

Grades

suraSil™GP30 suraSil™GP40 suraSil™GP50 suraSil™GP60 suraSil™GP70 suraSil™GP80

Specifications

Our colour 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).

The listing number is 1310541.

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.

Availability

Mouldings	Sheeting	Gaskets	Cables
	0	•	0
Extrusions	Compound	Tubing	
•	0	•	

Temperature Range

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

Environment Resistance

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

Availability

- Tubing, cord, section, strip and profiles.
- · Pressure sensitive adhesive backing.
- · Joined rings and gaskets.
- Full range of standard colours.
- · Capability to colour match.

General Characteristics

Test
Brittle Point
Limiting Oxygen Index
Thermal Conductivity
Radiation Resistance
Dielectric Strength
Dielectric Constant
Dissipation Factor
Volume Resistivity

Result

Nesuit
-80°C (-112 °F)
24.0 %
0.24 W.m ⁻¹ .K ⁻¹
>10 ⁵ Grays (10 ⁷ Rads) typical
23 kV.mm ⁻¹
2.9
3x10 ⁻⁴
3v10 ¹⁵ O cm

Standard

ASTM	D746	
BS 27	82 Part 1	
VDE 0	304	
VDE 0	303	

Typical Applications

Automotive, Domestic & Commercial Catering, Construction, Electronics, Energy, Food & Beverage, HVAC, Industrial, Lighting, Marine, Oil & Gas





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Solid Silicone Elastomer Sheeting Extrusions & Mouldings

Mechanical Properties

		suraSil™ GP30	suraSil™ GP40	suraSil™ GP50	suraSil™ GP60	suraSil™ GP70	suraSil™ GP80	
Property	Units	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Test Method
Hardness	Shore A ± 5	30	40	50	60	70	80	ASTM D2240 DIN ISO 7619-1
Tensile Strength	MPa (psi)	8.0 (1150)	9.0 (1300)	10.5 (1525)	11.5 (1670)	11.0 (1595)	10.0 (1450)	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Elongation to Failure	%	500	625	550	500	500	450	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Tear Strength	N/mm (lb/in.)	16.0 (91)	23 (130)	25 (143)	26 (148)	30 (172)	29 (166)	ASTM D624 die B
Compression Set 24 hours @ 150°C	%	23	25	15	13	9	18	BS 903 pt A6 type B DIN/ISO 815 type B
Compression Set 22 hours @ 300°F	%	20	22	16	10	10	16	ASTM D395 method B type 2

Extra Information

In-house capabilities for extensive industry specific testing available on request.

*All testing performed on translucent samples

