FICHE TECHNIQUE – Tube Silicone FDA

Solid Silicone Elastomer Extrusions & Mouldings

[GP]

Grades

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

Temperature Range

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

Specifications

Our colour range has been tested to and is in compliance with:

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.

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

Mouldings	Rolls	Gaskets	Cables
●	○	●	○

Extrusions	Compound	Tubing
●	○	●

Availability

- Tubing, cord, section, strip and profiles.
- Pressure sensitive adhesive backing.
- Joined rings and gaskets.
- Standard colours: translucent, White, Black, Blue, RIO, Grey, Green
- Capability to colour match.

General Characteristics

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	$3x10^{15}\Omega.cm$	VDE 0303

Typical Applications

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

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Mechanical Properties

Property	Units	suraSil™ GP30 Typical Value	suraSil™ GP40 Typical Value	suraSil™ GP50 Typical Value	suraSil™ GP60 Typical Value	suraSil™ GP70 Typical Value	suraSil™ GP80 Typical Value	Test Method
Hardness	Shore A ± 5	30	40	50	60	70	80	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 2
Elongation to Failure	%	500	625	550	500	500	450	ISO 37 type 2
Tear Strength	N/mm (lb/in.)	16 (91)	23 (130)	25 (143)	26 (148)	30 (172)	29 (166)	ASTM D624 die B
Compression Set 24 hours @ 150°C	%	23	21	15	13	16	18	DIN/ISO 815 type B

Extra Information

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

*All testing performed on translucent samples

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