

Technical Data Sheet

Silicone Rubber Sheeting

Platinum Cured



Material

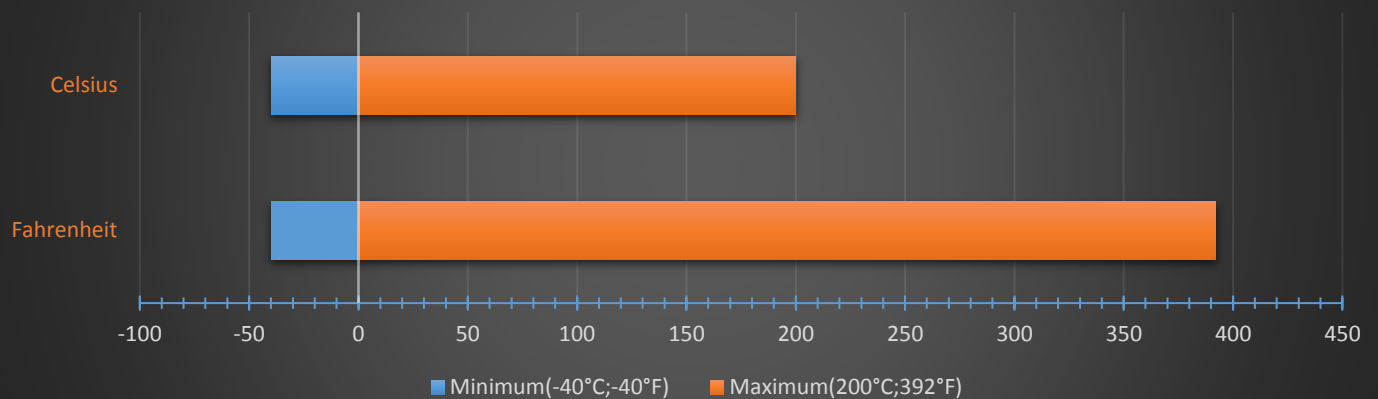
Wacker Chemie Elastosil ® R plus 4001/30 – 80°shore A

Available Grades

60° shore A from stock, other hardnesses available on request

Temperature

Temperature Range



General Information

Silex Platinum Cured Silicone Rubber Sheets are produced from high quality grades exhibiting good transparency and mechanical properties. The Sheets are properly postcured to comply with the requirements of FDA, BfR and EU 1935/2004 food contact regulations. The base material used is also specified to USP Class VI* and again postcured sufficiently to meet this requirement.

*It should be noted that Silex Platinum Cured Sheet is usually coated with an FDA grade of talcum powder so please check with your Sales contact at Silex regarding talc free options where total compliance to USP Class VI is required.

Environmental Resistance

Silicone rubber products have an excellent resistance to:

- ❖ Ozone
- ❖ Oxidation
- ❖ Ultraviolet light
- ❖ Corona discharge
- ❖ Cosmic radiation
- ❖ Ionising radiation
- ❖ Weathering in general

This information and our technical advice, whether verbal, in writing or by way of trials, is given in good faith but without warranty. This also applies where proprietary rights are involved. Our advice does not release you from the obligations to check its validity and to test our products as to their suitability for their intended use. The storage, application and use of our products are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale. The information contained within this data sheet is subject to change without notice. Issue date 01.01.2019.

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Availability Format

- ✓ Supplied in continuous roll lengths
- ✓ Widths of 1000mm (standard)
- ✓ Pressure sensitive adhesive backing
- ✓ Punched and Water jet gaskets
- ✓ Full range of standard colours
- ✓ Capability to colour match

Typical Applications

Silex Platinum Cured Silicone Sheets contain no peroxide curing agents and are generally used where peroxide byproducts need to be avoided. Applications include, but are not limited to, seals, gaskets, strips and fabrications in pharmaceutical, medical and potable water industries.

Mechanical Properties

Property	Test method	Unit	ELASTOSIL® R plus 4001		
			60	70	80
Hardness Shore A	DIN 53 505		60	70	80
Appearance			Transparent	Transparent	Transparent
Specific gravity	DIN EN ISO 1183-1 A	[g/cm ³]	1.14	1.16	1.18
Tensile strength	DIN 53 504 S 1	[N/mm ²]	10.7	9.5	7.0
Elongation at break	DIN 53 504 S 1	[%]	685	650	400
Tear resistance	ASTM D 624 B	[N/mm]	28	27	17
Impact resilience	DIN 53 512	[%]	59	60	62
Compression set	DIN ISO 815-B (22h / 175°C)	[%]	19	35	< 25

Cure conditions 15min/165°C in press, postcuring for 4h/200°C in ventilated air.
(These figures are only intended as a guide and should not be used in preparing specifications.)

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SILEX SILICONES LIMITED

Unit 10, Oakhanger Farm Business Park, Oakhanger, Hampshire, GU35 9JA, Tel 0044 1420 470 360, Fax 0044 472 802
E-Mail: info@silex.co.uk, Website: www.silex.co.uk, Registered in England No. 1951973
Directors: N J R Soudah, S J Fearn

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Accreditations

- ❖ FDA compliant
- ❖ BfR compliant
- ❖ USP Class VI* compliant
- ❖ REACH compliant and RoHS compliant

Additional Information

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Directors: N J R Soudah, S J Fearn