

# Technical Data Sheet

Silicone Rubber Sheetting Platinum Cured Calendered



## Material

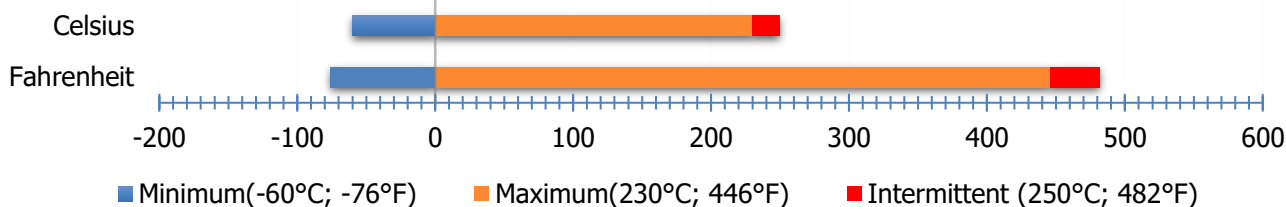
NGP 60 Platinum



## Available Grades

60° Sh A Translucent as standard

## 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.

Translucent has been approved to WRAS for use with potable water at temperatures up to 85°C. There products meet the flammability requirement of FAR 25/ JAR 25/ CS 25 Appending 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
- Weathering in general

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SILEX LTD

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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 biproducts need to be avoided. Applications include:

- Domestic & Commercial Catering Equipment
- Food
- Pharmaceutical
- Medical
- Beverage
- Water industries

## Mechanical Properties

Property	Test Method	Unit	SILBIONE MM71160 USP (1)	SILBIONE MM71160 USP (2)
Hardness Shore A	DIN 53 505		62	60
Appearance			Translucent	Translucent
Specific Gravity	DIN EN ISO 1183-1 A	g/cm <sup>3</sup>		1.18
Tensile Strenght	DIN 53 504 S 1	MPa	11.5	12.2
Elongation at break	DIN 53 504 S 1	%	440	580
Tear Strenght	ASTM D 624 A	kN/m	22	24
Impact Resilience	DIN 53 512	%	55	49
Compression Set	DIN ISO 815-B (22H / 177°C)	%	34	44

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## Accreditations

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

\*the used rubber is compliant as per below information however, the production process is not certified to the same level. Please speak to your sales support for additional information.

## Additional Information



### ATTESTATION

**2 - COMPONENT ADDITION CURE SYSTEM:  
SILBIONE HCRA 71160 A & B**

#### Classification of Plastics following the USP Class VI

By analogy to Elkem Silicones' **SILBIONE® HCRA 4160 ACE**, which successfully passed the following tests required by USP Class VI for skin contact healthcare applications or healthcare applications less than 29 days implantation, according to study endpoints required by ISO 10993, the specific biotests conducted for the analogous materials being the following:

1. Acute Systemic Toxicity in Mice- USP Class VI
2. Intracutaneous Toxicity in Rabbits - USP Class VI
3. 7-Day Intramuscular Implantation study in Rabbits - USP Class VI

Elkem Silicones' **2-Component Extrusion Addition Cure Silicone System based on SILBIONE MM 71160 U SP**, a substantially equivalent material used according to the technical conditions described in our technical document n° **SIL 016-0190** (March 2016), will also meet these testing requirements.

Certified by Elkem Silicones' Product Stewardship Department

Creation date: July 2019  
Valid until: July 2022