

# Technical Data Sheet

NGP 70 Platinum Cured Extrusion Grade



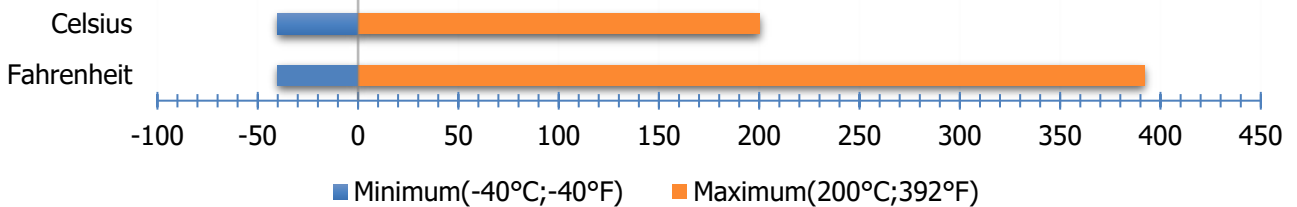
## Material

NGP 70



## Available Grades

## Temperature Range



## General Information

NGP 70 silicone rubbers are addition-cured, two-part compounds (batch grades) for the manufacture of extruded standard articles. The vulcanizates maintain good transparency and mechanical properties. Accurately post-cured vulcanizates of NGP 70 comply with BfR and FDA food contact regulations.

## Availability

NGP 70 is intended for peroxide free fabrication of extruded standard articles such as:

- TUBING
- STRIPS
- CORDS
- PROFILE

## Processing

NGP 70 is not cured with peroxides, but only with the catalyst batch PT 1. NGP 60 and curing agent PT 1 are mixed homogeneously on a rolling mill in a ratio of 100 : 1.5. Care must be taken to keep the mill and compound as cool as possible during the mixing process.

The temperature of the rubber should not exceed 35° C, as this would risk partial curing and seriously reduce the pot life. Cross-linking begins when Curing Agent PT1 has been added. The rate and degree of crosslinking depends on the storage, time and temperature. At 23° C, the mixture has a pot life of around 24h. This can be extended by storing the catalysed mixture at a lower temperature.

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.

SILEX SILICONES LTD

Silex Ltd, Unit 10, Oakhanger Farm Business Park, Oakhanger, Bordon, Hampshire, GU35 9JA. Tel 00 44 1420 470360, Fax 00 44 1420 472802

E-Mail: [sales@silex.co.uk](mailto:sales@silex.co.uk), Website: [www.silex.co.uk](http://www.silex.co.uk), Registered company number: 1951973. Place of registration: England & Wales. Directors: K Soudah, S.J. Fearn, P Millson, R Soudah

# Technical Data Sheet

NGP 60 Platinum Cured Extrusion Grade



## Storage

NGP 70 should be stored under 25° C in the originally sealed container. The 'use before end' date of each batch appears on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for intended use must be checked for quality assurance reasons.

## Mechanical Properties

### Property Data (post-cured)

| Property            | TEST METHOD                  | UNIT                 | NGP70       |
|---------------------|------------------------------|----------------------|-------------|
| Hardness SHORE A    | DIN 53.505                   |                      | 70          |
| APPEARANCE          |                              |                      | Translucent |
| SPECIFIC GRAVITY    | DIN EN ISO 1183-1A           | [g/cm <sup>3</sup> ] | 1.17        |
| TENSILE STRENGTH    | DIN 53 504 S1                | [N/mm <sup>2</sup> ] | 9.6         |
| ELONGATION AT BREAK | DIN 53 504 S1                | [%]                  | 600         |
| TEAR RESISTANCE     | ASTM D 624 B                 | [N/mm <sup>2</sup> ] | 30          |
| IMPACT RESISTANCE   | DIN 53 512                   | [%]                  | 56          |
| COMPRESSION SET     | DIN ISO 815-B<br>(22h/175°C) | [%]                  | 20          |

\*Cure Conditions 15min/165°C in press, post-curing for 4h/200°C in ventilated air.

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.

SILEX SILICONES LTD

Silex Ltd, Unit 10, Oakhanger Farm Business Park, Oakhanger, Bordon, Hampshire, GU35 9JA. Tel 00 44 1420 470360, Fax 00 44 1420 472802

E-Mail: [sales@silex.co.uk](mailto:sales@silex.co.uk), Website: [www.silex.co.uk](http://www.silex.co.uk), Registered company number: 1951973. Place of registration: England & Wales. Directors: K Soudah, S.J. Fearn, P Millson, R Soudah