



General Information

NGP 60 silicone rubbers are addition-cured, four-part compounds (batch-grades) for the manufacture of extruded standard articles. The vulcanizates show good transparency and have good mechanical properties. Correctly post-cured vulcanizates of NGP 60 comply with BFR and FDA food contact regulations.

Availability

NGP 60 is intended for peroxide free fabrication of extruded standard articles such as:

- TUBING
- STRIPS
- CORDS
- PROFILE

Processing

NGP 60 is not cured with peroxides, but with the catalyst batch PT 1, 4K-I and 4K-X. NGP 60 and curing agents are mixed homogeneously on a rolling mill. 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.

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Storage

NGP 60 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	Typical Value
Hardness SHORE A	DIN 53.505		60
APPEARANCE			Translucent
SPECIFIC GRAVITY	DIN EN ISO 1183-1A	[g/cm ³]	1.15
TENSILE STRENGTH	DIN 53 504 S1	[N/mm ²]	10.3
ELONGATION AT BREAK	DIN 53 504 S1	[%]	600
TEAR RESISTANCE	ASTM D 624 B	[N/mm ²]	25
IMPACT RESISTANCE	DIN 53 512	[%]	60
COMPRESSION SET	DIN ISO 815-B (22h/175°C)	[%]	20

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

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