

Silopren™ LSR 2020

Silopren* LSR 2020

Description

Silopren LSR 2020 is a standard two-component liquid silicone rubber for injection molding processes. Because of its excellent processing properties it can be considered for use in a wide range of applications.

Key Features and Benefits

Vulcanizates consisting of Silopren LSR 2020 typically are distinguished by the following properties:

- high thermal stability
- excellent stability and flexibility at low temperatures
- excellent biocompatibility
- sterilizable with ethylene oxide, steam and gamma radiation
- good rubber-like properties
- long service life at dynamic stress
- high stability to ozone and ultraviolet light
- outstanding resistance to aging
- excellent dielectric behavior over a wide range of temperatures
- not readily combustible, does not melt or drip
- easily-pigmentable with LSR Color Pastes

Typical Physical Properties

| | | A Component | B Component |
|---|------------------|-------------------|-------------|
| Appearance | | Translucent | Translucent |
| Viscosity in Pa•s $\gamma = 10 \text{ s}^{-1}$ at 20°C | DIN 53019 | 200 | 200 |
| The pot-life of the mixture of the two components (closed vessel) at 20°C is usually three days. Increased temperatures reduce the pot-life. | | | |
| Typical Properties of the Vulcanizate: Mixing ratio of components A : B = 1 : 1. Vulcanization: 10 min. 175°C + 4 hrs 200°C post-cure | | | |
| Density | DIN 53 479 A | g/cm ³ | 1.08 |
| Shore A Hardness | DIN 53 505 | | 22 |
| Tensile Strength | DIN 53 504 S2 | N/mm ² | 6.5 |
| Elongation at Break | DIN 53 504 S2 | % | 1000 |
| Tear Strength | ASTM D 624 die B | N/mm | 15 |
| Compression Set (22 h at 175°C) | ISO 815 | % | 20 |

Typical data are average data and actual values may vary.

Typical data shall not be used as product specifications.

Potential Applications

Because of its outstanding properties, Silopren LSR 2020 is an excellent candidate to consider for use in the following elastomeric articles:

- sealing elements
- O-rings
- stoppers
- swimming caps
- vibrator dampening elements
- parts of medical technical equipment
- ... and many more.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant

patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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