

## Silopren™ LSR 2660

### Liquid Silicone Rubber

#### Description

Silopren LSR 2660 is two-component liquid silicone rubber for injection moulding processes. Silopren LSR 2660 liquid silicone rubber shows in comparison to Silopren LSR 2060 liquid silicone rubber a lower viscosity, improved tear resistance and a higher reactivity. Therefore, it is also possible to reduce the vulcanisation temperature while maintaining a standard crosslinking rate. The increased reactivity does not affect the properties of the vulcanisate.

#### Key Features and Typical Benefits

- high reactivity, lower viscosity, shorter cycle time
- excellent thermal stability
- high stability and flexibility at low temperatures
- good rubber-like properties, high tear resistance
- long service life at dynamic stress
- high stability to ozone and ultraviolet light
- outstanding resistance to ageing
- excellent dielectric behaviour over a wide range of temperatures
- not readily combustible, does not melt or drip
- easy pigmentable with the LSR Colour Pastes
- Fulfill the requirement of KTW

#### Approval

- meets flame retardant class UL 94 HB
- compliance with FDA and BfR Recommendations

- WRAS approved product

### Potential Applications

Because of the outstanding properties Silopren LSR 2660 liquid silicone rubber is particularly suitable for the following elastomeric articles: sealing elements, O-rings, stoppers, diaphragms, keypads, vibration dampers, switch cover, breast shields, pressure cookers parts, spark plug boots s.o.

### Typical Physical Properties

<u>Typical properties of the uncured rubber:</u>			
		<b>A-part</b>	<b>B-part</b>
Appearance		translucent	translucent
Viscosity in Pa•s $\gamma = 10 \text{ s}^{-1}$ at 20 °C	DIN 53018	500	500
The pot-life of the mixture of the two components (closed vessel) at 20 °C is three days. Increased temperatures reduce the pot-life.			
<u>Typical properties of the Vulcanisate:</u>			
Mixing ratio of components A : B = 1 : 1.			
Vulcanisation: 10 min. 175 °C + 4 hrs. 200 °C post cure			
Density	DIN 53 479 A	g/cm <sup>3</sup>	1.13
Shore A hardness	DIN 53 505		62
Tensile strength	DIN 53 504 52	N/mm <sup>2</sup>	9.0
Elongation at break	DIN 53 504 52	%	400
Tear strength	ASTM D 624 die B	N/mm	45
Compression set	DIN 53 517 (22 J A 175 °C)	%	20

Typical properties are average data and are not to be used as or to develop specifications.

### Availability

Silopren LSR 2660 liquid silicone rubber is currently available in 2 x 20 kg pail-kits and 2 x 200 kg drum-kits.

### General Considerations for Use

Ready-to-use mixtures (of the components A and B) are fed directly to the injection moulding machine from the original containers by means of a metering and mixing unit.

The mixture, consisting of the two components in the ratio 1: 1, is injected into the heated mould. At mould temperatures of 140 - 200 ° C, the addition-crosslinking silicone rubber vulcanises free of dissociation products within a few seconds. High curing speed and ease of demoulding permit fully automated production of large numbers of articles in short cycle times. With Silopren LSR 2660 liquid silicone rubber it is possible to produce combined elements with a wide range of thermoplastic materials.

### **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](http://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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