

Silopren™ LSR 2660 ZKS

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Description

Silopren LSR 2660 ZKS is a two-component liquid silicone rubber for the production of spark plug boots by injection moulding. **Silopren LSR 2660 ZKS** liquid silicone rubber has a lower compression set after vulcanization before post-curing than **Silopren LSR 2660** liquid silicone rubber.

Key Features and Benefits

Vulcanizates from **Silopren LSR 2660 ZKS** are distinguished by the following properties:

- non post-cure
- high reactivity
- excellent 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,

Typical Physical Properties

Typical properties of the uncured material			
		A-part	B-part
appearance		black	translucent

Viscosity in Pa.s gamma = 10 s ⁻¹ at 20 ° C	DIN 53018	470	470
The pot-life of the mixture of the two components (closed vessel) at 20 ° C is typically three days. Increased temperatures reduce the pot-life. <u>Typical properties of Silopren LSR2660 ZKS liquid silicone rubber</u>			
Mixing ratio of components A : B = 1 : 1. Vulcanisation : 10 min at 175 °C			
Density	DIN 53 479 A	g/cm ³	1.13
Hardness	DIN 53 505	Shore A	60
Tensile strength	DIN 53 504 S2	N/mm ²	11.4
Elongation at break	DIN 53 504 S2	%	500
Tear strength	ASTM D 624 die B	N/mm	39
Compression set (22h at 175 °C)	DIN ISO 815	%	20

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

Potential Applications

Silopren LSR 2660 ZKS liquid silicone rubber is an excellent candidate to consider for the production of spark plug boots.

Processing Recommendations

Ready-to-use mixtures (of the components A and B) are fed directly to the injection molding 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 mold. At mold temperatures of 140-200 degrees Celsius, the addition-crosslinking silicone rubber vulcanizes free of dissociation products within a few seconds. High curing speed and ease of de-molding can help enable fully automated production of large numbers of articles in short cycle times.

Packaging

Silopren LSR 2660 ZKS liquid silicone rubber is available in 2x20 kg pail kits and 2x200 kg drum kits.

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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