

## Silopren™ LSR 2010

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### Description

**Silopren LSR 2010 TP 3740** is a standard two-component liquid silicone rubber for injection molding processes. Because of its excellent processing properties it can be used for a wide range of applications.

### Key Features and Benefits

Vulcanisates consisting of **Silopren LSR 2010 TP 3740** are distinguished by the following properties:

- high transparent
- high thermal stability
- excellent stability and flexibility at low temperatures
- high stability to ozone and ultraviolet light
- outstanding resistance to ageing
- excellent dielectric behavior over a wide range of temperatures
- not readily combustible, does not melt or drip
- easy-pigmentable with LSR Colour Pastes

### Typical Physical Properties

Typical properties of the rubber:			
		A Component	B Component
Appearance		translucent	translucent
Viscosity in Pas gamma = 10 s <sup>-1</sup> at 20 ° C	DIN 53018	70	70
The pot-life of the mixture of the two components (closed vessel) at 20 ° C is three			

days. Increased temperatures reduce the pot-life.

Typical properties of the vulcanisate:

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>	1.07
Shore A hardness	DIN 53 505		8
Tensile strength	DIN 53 504 S2	N/mm <sup>2</sup>	2.5
Elongation at break	DIN 53 504 S2	%	970
Tear strength	ASTM D 624 die B	N/mm	6.0

**Potential Applications**

Because of the outstanding properties **Silopren LSR 2010 TP 3740** is particularly suitable for the following elastomeric articles: stoppers, vibration dampers, shoe inserts s.o.

**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 170 - 230 ° C, the addition-crosslinking silicone rubber vulcanises free of dissociation products within a few seconds. High curing speed and easy demolding permit fully automated production of large numbers of articles in short cycle times.

**Containers**

**Silopren LSR 2010 TP 3740** is available in 20 kg pails and 200 kg drums.

**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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