



Silopren* LSR 2740 TP3783

Silopren* LSR 2740 TP3783

Liquid Silicone Rubber

Description

Silopren LSR 2740 TP 3783 is a two-component liquid silicone rubber for injection molding, which offers primer-less adhesion to a wide range of substrates including metals and engineering plastics, but without adhesion to the mold. Full bond strength is generally reached after a short post cure (e.g. one hour at 100 degrees Celsius) or by longer storage at room temperature. This makes **Silopren LSR 2740** liquid silicone rubber a good option to consider for cost-efficient manufacturing of high part-quantities in integrated processes, such as multi-component injection molding or insert-molding.

Key Features and Benefits

- Primer-less adhesion to many substrates
- No special mold treatment needed (final adhesion builds up with time)
- High temperature stability
- Excellent stability and flexibility at low temperatures
- Favorable aging behavior and weathering resistance
- Good dielectric and mechanical properties
- Easy to pigment with LSR color-pastes

Typical Physical Properties

Typical Properties of the Uncured Material				
			A-part	B-part
Appearance			translucent	translucent
Viscosity $\gamma=10s^{-1}$ at 20°C	DIN 53 018	Pa.s	610	670
The pot-life of the mixture of the components (closed vessel) at 20 degrees Celsius is three days. Increased temperatures reduce the pot-life.				
The mechanical properties of Silopren LSR 2740 liquid silicone rubber				
Mixing Ratio of Components A:B=1:1. Vulcanization: 10min at 175°C.				
Density	DIN 53 479 A	g/cm ³	1.12	
Hardness	DIN 53 505	Shore A	38	
Tensile strength	DIN 53 504 S2	N/mm ²	9.3	
Elongation at break	DIN 53 504 S2	%	700	
Tear strength	ASTM D 624 die B	N/mm	20	
Compression set (22 h at 120°C)	DIN ISO 815	%	15	
Compression Set (22h at 150°C)	DIN ISO 815	%	25	

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

Potential Applications

Silopren LSR 2740 liquid silicone rubber is an excellent candidate to consider for the manufacturing of parts where engineering plastics and elastomeric materials need to be combined in an over-molding process, such as sealing elements, membranes, vibration-dampening elements, spatula or other hard-soft combinations.

Processing Considerations

Silopren LSR 2740 liquid silicone rubber is a kit-matched product. As such, work time (pot-life), cure time, and final cured properties can only be assured if the batch numbers of the A component and B component are identical and the material is mixed at a ratio of 1:1 (by weight). Pumping and meter-mixing systems for **Silopren LSR 2740** liquid silicone rubber and appropriate injection molding machines are available from a number of manufacturers, most of whom will provide a complete integrated systems. When starting up a new mold, the first molding cycles (approximately 1000) should be carried out with a standard Silopren LSR grade, such as Silopren LSR 20xx. It's also possible to use a fluoro-containing release agent. For further information please contact Momentive Performance Materials.

Packaging

Silopren LSR 2740 liquid silicone rubber is available in 2x20 kg pail kits and 2x200 kg drum kits.

Regulatory Compliance:

- A representative sample of an analogous product to **Silopren LSR 2740** liquid silicone rubber met the requirements of USP Class VI (maximum contact time with human tissue 28 days) and ISO 10993 under Good Laboratory Practices (GLP).
- The ingredients are listed in the BfR recommendation XV "Silicones"(1)
- Compositionally compliant with 21 CFR 177.2600 – Rubber articles intended for repeated use(2)

(1) Producer of the final article needs to test and confirm that the final product meets the extraction limits of BfR XV or corresponding EU legislation.

(2) It is the responsibility of the user to determine that the final product complies with the extractive limitations and other requirements of 21 CFR 177.2600, under their specific manufacturing procedures.

Storage

Store in the original, unopened containers at room temperature (maximum 27 degrees Celsius).

From automotive to healthcare, from electronics to construction, products from Momentive Performance Materials Inc. are practically everywhere you look. We are a global leader in silicones and advanced materials with a 70+ year heritage of innovation and being first to market – with performance applications that improve everyday life. By knowing our customers' needs and creating custom technology platforms for them, we provide science based solutions to help customers increase performance, solve product development issues and engineer better manufacturing processes.

Contact Information

For product prices, availability, or order placement, contact our customer service by visiting www.momentive.com/Contacts

For literature and technical assistance, visit our website at: www.momentive.com

Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.

***Silopren is a trademark of Momentive Performance Materials Inc.**

DISCLAIMER

The information provided herein was believed by Momentive Performance Materials Inc. (collectively with its subsidiaries, "Momentive") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product, and to determine the suitability of the product for user's intended application or use. All products supplied by Momentive are subject to Momentive's standard terms and conditions of sale. **MOMENTIVE MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY MOMENTIVE**, except that the product shall conform to Momentive's specifications. Nothing contained herein constitutes an offer for the sale of any products.