

Silopren* Gel TP3636

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Description

Silopren Gel TP 3636 is a solvent-free, low-viscosity roomtemperature vulcanizing two-component silicone rubber, which crosslinks into a gel-like product by an addition reaction caused by mixing components A and B. The resulting gel is transparent and dimensionally stable and adheres to virtually all substrates. With its good electrical insulation capacity **Silopren Gel TP 3636** can be used, for example, to protect electronic components. The silicone gel protects sensitive components from moisture and through its good mechanical damping properties from shocks and shaking. The silicone gel retains these properties over a wide temperature range.

Key Features and Benefits

- solvent-free, low viscosity, room-temperature vulcanizing
- transparent and dimensionally stable
- good electrical insulation retains these properties over a wide temperature range.

Typical Physical Properties

Individual components		Component A	Component B
Appearance		colourless, clear	colourless, clear
Viscosity	mPa·s	1000	1000
Density	g/cm ³	0.98	0.98
Properties of the mixture of components A and B: Mixing ratio 1:1			
Appearance		colourless, clear	
Pot-life*	at RT	5 min	
Gel time	at 60 °C	60 min	
Gel time	at 100 °C	30 min	
Gel time	at 150 °C	10 min	
Gel point**	at 60 °C	< 8 min.	
*) Pot-life is the time for the initial viscosity to double.			
**) osc. Rheometer 1 Hz			

Properties following crosslinking after 1hour at 100 °C			
Penetration (20 °C)	DIN ISO 2137 (1/4 cone)	mm/10	57
Dielectric strength	DIN 53481	kV/mm	24
Volume resistivity	DIN 53481	Ω.cm	1.0· 10 ¹⁵
Dissipation factor tan δ	DIN 53483 (1 KHz)		0.001
Dielectric constant ε _r	DIN 53483 (1 KHz)		2.7

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

Stored in dry and cool (27 °C max.) conditions in the sealed original containers, components A and B of **Silopren Gel TP 3636** have a shelf life of 6 months.

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.

Contact Information

For product prices, availability, or order placement, contact our customer service at Momentive.com/CustomerService/

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

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