

Silopren™ LSR 2742

Silopren* LSR 2742

Description

LSR 2742 is a two-component, selfbonding liquid silicone rubber for injection moulding processes showing primerless adhesion to predominately polyesters such as PBT but also a wide range of substrates (e.g. engineering plastics, metals) without adhesion to the mould during manufacturing.

Key Features and Benefits

- Primerless adhesion to many substrates without necessity of any special mould treatment
- High thermal stability
- Excellent stability and flexibility at low temperatures
- Long service life at dynamic stress
- Good rubber-like properties
- 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

		A-part	B-part
--	--	--------	--------

		translucent	translucent
Viscosity in Pas $\eta=10^{-1}$ at 20°C	DIN 53 018	520	520
The pot-life of the mixed components (closed container) at 20°C is three days. Increased temperatures reduce the pot-life.			
The mechanical properties were measured on test sheets (2 mm). These were produced by mixing the components A & B in 1:1 ratio and curing the resulting mixture 10 min at 175°C post-cured 4h at 200°C.			
Density	DIN 53 479 A	g/cm ³	1.12
Shore A hardness	DIN 53 505		40
Tensile strength	DIN 53 504 S2	N/mm ²	7.5
Elongation at break	DIN 53 504 S2	%	550
Tear strength	ASTM D 624 die B	N/mm	35

Potential Applications

Due to the selfbonding properties LSR 2742 is the optimal choice for the production of multi component articles in a cost efficient integrated process (multi component injection moulding, overmoulding). Because of the outstanding properties LSR 2742 is particularly suitable for the manufacturing of soft/rigid combinations out of engineering plastics and LSR e.g. sealing elements, membranes, shower heads or wherever a gasket is needed on a thermoplastic substrate.

Regulatory Compliance

- KTW approved
- 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.

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.

Contact Information

Email

commercial.services@momentive.com

Telephone

Americas	Latin America	EMEA- Europe, Middle East, Africa & India	ASIA PACIFIC
+1 800 295 2392	Brazil +55 11 4534 9650	Europe +390510924300	China 800 820 0202

Toll free*	Direct Number	Direct number	Toll free
+704 805 6946			+86 21 3860 4892
Direct Number			Direct number
*All American	Mexico	India, Middle East &	Japan
countries	+52 55 2169 7670	Africa	+81 3 5544 3111
	Direct Number	+ 91 44 71212207	Direct number
		Direct number*	
		*All Middle Eastern	Korea
		countries, Africa, India,	+82 2 6201 4600

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

DISCLAIMER:

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier’s materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier’s products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any

provision of Supplier's standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

The use of the "™" symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc. or its affiliated companies. Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.