

## 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

|  |  |               |               |
|--|--|---------------|---------------|
|  |  | <b>A-part</b> | <b>B-part</b> |
|--|--|---------------|---------------|

|   |                  |                   |             |
|---|------------------|-------------------|-------------|
|   |                  | translucent       | translucent |
| Viscosity in Pas<br>$\eta=10^{-1}$ at 20°C  | DIN 53 018       | 520               | 520         |
| The pot-life of the mixed components (closed container) at 20°C is three days.<br>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 <sup>3</sup> | 1.12        |
| Shore A hardness  | DIN 53 505       |                   | 40          |
| Tensile strength  | DIN 53 504 S2    | N/mm <sup>2</sup> | 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” <sup>(1)</sup>
- Compositionally compliant with 21 CFR 177.2600 – Rubber articles intended for repeated use<sup>(2)</sup>

(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](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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