

# Silopren™ LSR 2615

**Engineered Softness, Unmatched Strength**

**Low Hardness, High Tear Resistant Technology**



## Product Description

Silopren LSR 2615 A high-performance, two-component liquid silicone rubber engineered for precision injection molding and advanced coating applications.

Silopren LSR 2615 delivers exceptionally low viscosity and enhanced tear resistance compared to conventional low-hardness LSR grades. These advantages enable smooth, efficient processing and consistently high productivity.

With its excellent mechanical and sensory properties, Silopren LSR 2615 is ideal for a wide range of consumer products – including sensitive applications such as baby bottle nipples and other soft-touch components.

Unlock superior molding performance with Silopren LSR 2615.

## Key Benefits of Silopren LSR 2615

- **Soft yet Strong:** Low hardness formulation with exceptional tear resistance.
- **Optimized Processing:** High flowability and low viscosity enable fast filling and short cycle times.
- **Excellent Fabric Bonding:** Achieves reliable adhesion to a wide range of polyester textiles.
- **Thermal Performance:** Maintains stability and performance even under elevated temperatures.
- **Superior Elastic Recovery:** Excellent resilience for long-lasting flexibility and durability.
- **Electrical Reliability:** Outstanding dielectric properties across broad temperature ranges.
- **True Rubber-Like Feel:** Delivers strong mechanical performance with the tactile benefits of silicone rubber.
- **Environmental Durability:** High resistance to ozone, UV exposure, and long-term aging.
- **Vibrant and Customizable:** Easily colorable using standard LSR pigment pastes.

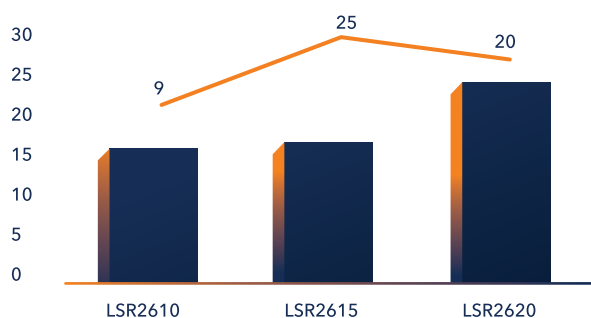
## Typical Mechanical Properties

Mixing Ratio of Components A : B = 1 : 1.  
Vulcanization: 10 min. 175°C + 4 hrs 200°C post-cure

Density	DIN 53 479 A	g/cm <sup>3</sup>	1.10
Shore A Hardness	DIN 53 505		17
Tensile Strength	DIN 53 504 S2	N/mm <sup>2</sup>	5.6
Elongation at Break	DIN 53 504 S2	%	840
Tear Strength Crescent	ASTM D 624 die B	N/mm	25
Compression Set	DIN 53 517 (22 h at 175°C)	%	30

## Tear Strength Comparison

### Silopren LSR 2615 with High Tear-Resistant Technology



■ Hardness (Shore A) ■ Tear Strength (N/mm)

Silopren LSR 2615 utilizes engineered filler systems and optimized polymer structure to improve tear performance while maintaining low hardness.

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

## 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 140 - 200°C, the addition-crosslinking silicone rubber typically vulcanizes without any dissociation products within a few seconds. High curing speed and easy demolding can help enable the fully automated production of a large number of articles in short cycle times

## Instructions for Use

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 140°C - 200°C, the addition-crosslinking silicone rubber vulcanizes free of dissociation products within a few seconds. High curing speed and ease of de-molding permit fully automated production of large numbers of articles in short cycle times. Carefully clean processing equipment after use to avoid contamination of other products

## Storage and Warranty Period

The shelf life will be indicated by the 'use before date' on the associated documents with a minimum of 12 months when stored in the original unopened containers at temperatures of 43°C or below.

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