

ELASTOSIL® LR 3003/10 US

Liquid Silicone Rubber



Applications

ELASTOSIL® LR 3003 A/B US Liquid Silicone Rubbers are paste-like, easily pigmentable, two-component liquid silicone rubbers with short curing times.

These grades are particularly suitable for the large scale, automated production of molded parts.

Key Characteristics

- Good elongation
- Low modulus
- Excellent pot life after mixing parts A & B
- Consistent quality
- Good molding qualities

Properties

Typical Property values are not intended for use in the preparation of specifications. Please contact Wacker Silicones Division for assistance and recommendations before writing specifications on this product.

Fabricating

ELASTOSIL® LR 3003/10 US can be fabricated using standard liquid rubber injection molding techniques.

Vulcanization

ELASTOSIL® LR 3003/10 US is vulcanized by mixing part A with part B in a ratio of 1:1 with the application of heat. Cure initiation is exhibited at 118°C.

Product Data

Property*	Test Procedure	Value
Appearance	WSTM 1279	Translucent
Specific Gravity, 25°C	WSTM 1154	1.08
Viscosity A/B, mPa-s	WSTM 3277	80,000/80,000
Pot Life, hrs, 25°C***	WSTM 2299	48
Hardness, Shore A	WSTM 1110	9
Tensile Strength	WSTM 1160	
MPa		3.0
psi		430
Elongation, %	WSTM 1160	660
Tear Strength, die B	WSTM 1160	
kN/m		7.9
ppi		45
Brittle Point, °C	ASTM D746	-73

* Properties obtained after mixing Part A and Part B in a ratio of 1:1; press cured 5 min/166°C.

*** Pot life determined by time required for extrusion rate to be reduced to 50% of initial value.

It is recommended that molded parts be postcured for best dimensional and mechanical stability.

Storage

ELASTOSIL® LR 3003/10 US has a shelf life of at least 6 months when stored below 32°C in the tightly closed original container. Storage beyond the recommended shelf-life does not necessarily mean that the product is no longer usable. However, the properties required for the intended use must be checked for quality assurance reasons.

Once opened, containers should always be resealed to prevent catalyst poisoning by amines, sulfur compounds, and other substances

Safety

For detailed safety information, please refer to the Material Safety Data Sheet.

Packaging

ELASTOSIL® LR 3003/10 US Liquid Silicone Rubber is available in 36 kg. (80 lb.) pail kits and 364 kg. (800 lb.) drum kits.

Contact Information

Phone: 1 800 554-1715
Press 1 for Silicone Rubber –
Follow the menu instructions

e-mail: customercare@wacker.com

Wacker Silicones
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Wacker Silicones Division is a domestic manufacturer of basic silicone materials for industry. Products include silicone fluids and emulsions, antifoam and release agents, room temperature vulcanizing (RTV) sealants and adhesives, heat curable rubber (HCR), liquid silicone rubber (LSR), masonry water repellents, paint raw materials, paper release coatings, and textile finishes

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The management system has been certified according to ANSI/ISO/ASQ Q9001 And ANSI/ISO 14001

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