

ELASTOSIL® LR 3003/70 A/B 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

- Excellent catalyzed pot life
- Good mechanical properties
- High transparency
- Fast cure

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.

Processing

ELASTOSIL® LR 3003/70 A/B US can be fabricated using standard liquid rubber injection molding techniques. The product is delivered equal parts A/B and designed for a 1:1 (A;B) mix ratio. With proper metering equipment, it can be pumped directly through a static mixer into the injection molding machine.

Product Data

Property*	Test Procedure	Value
Appearance	WSTM 1279	Translucent
Specific Gravity, 25°C	WSTM 1154	1.11
Viscosity, A/B, mPa-s	WSTM 3277	190,000/190,000
Pot Life, hrs, 25°C***	WSTM 2299	48
Hardness, Shore A	WSTM 1110	68
Modulus @ 100%	WSTM 1160	
MPa		3.3
psi		480
Tensile Strength	WSTM 1160	
MPa		11.0
psi		1600
Elongation, %	WSTM 1160	350
Tear Strength, die B	WSTM 1160	
kN/m		32
ppi		180
Compression Set, %;	WSTM 1114	
22 hrs @ 177°C		27

* Properties obtained after mixing Part A and Part B in a ratio of 1:1; press cured 5 min/166°C. Post cured 4 hrs/200°C

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

It is recommended that molded parts undergo a postcure treatment prior to use in food contact applications.

Storage

ELASTOSIL® LR 3003/70 A/B US has a shelf life of at least 12 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 Safety Data Sheet (SDS).

Packaging

ELASTOSIL® LR 3003/70 A/B 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
Wacker Chemical Corporation
3301 Sutton Road
Adrian, Michigan 49221-9397

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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WACKER SILICONES
Wacker Chemical Corporation
3301 Sutton Road
Adrian, MI 49221
TEL: + 1 517 264 8500
FAX: + 1 517 264 8246
e-mail: customercare@wacker.com

www.wacker.com