

Technical Data

Product Description

LIQUID SILICONE RUBBER

Liquid silicone rubbers of the LUMISIL® LR 7600 series are paste-like, two component compounds with short curing times. The vulcanizates are noted for their very high optical transparency and excellent mechanical and electrical properties.

Properties

- The products can be used at temperatures down to -55 °C and even above +150 °C. The outstanding optical transparency extends over a broad range of the visible spectrum and exceeds the transparency of polycarbonate or polymethylmethacrylate. The refractive index nD25 is in the range of 1.41.
- In contrast to standard ELASTOSIL® LR grades, the hardness in the product name of LUMISIL® LR 7600/70 A/B reflects the hardness of vulcanized articles in the non-post cured state. Depending on the injection molding parameters, the geometry of the final parts and the post curing conditions, hardness increases after post curing in the range of 5 to 12 points.

Application

- These grades are particularly suitable for the economical production of large series of injection molded articles with excellent optical transparency. Parts made from LUMISIL® LR 7600/70 A/B can be used for technical applications. If these articles are also suitable for use in conjunction with foodstuffs is currently under evaluation.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Search for UL Yellow Card	• Wacker Chemie AG		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Electrical Properties	• Good Optical Properties	• High Clarity
Uses	• LEDs • Lenses	• Lighting Applications • Optical Applications	• Transparent or Translucent Parts • Transparent Parts
Processing Method	• Injection Molding	• Liquid Injection Molding (LIM)	

Uncured Properties	Nominal Value Unit	Test Method
Color	Transparent, High	
Density	1.05 g/cm ³	ISO 1183
Viscosity		DIN 53019
-- ³	45 Pa·s	
-- ⁴	41 Pa·s	

Cured Properties	Nominal Value Unit	Test Method
Shore Hardness (Shore A)	70	DIN 53505
Tensile Strength	9.00 MPa	DIN 53504-S1
Tensile Elongation at Break	90 %	DIN 53504-S1
Tear Strength	10.0 kN/m	ASTM D624B

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ shear rate 1 1/s

⁴ shear rate 10 1/s



LUMISIL® LR 7600/70 A/B

Silicone

Wacker Chemie AG

PROSPECTOR®

www.ulprospector.com

Where to Buy

Supplier

Wacker Chemie AG

Munich, Germany

Web: http://www.wacker.com/cms/en/wacker_group/services/infoservice/infoservice.jsp

Distributor

Please contact the supplier to find a distributor for LUMISIL® LR 7600/70 A/B

