

LUMISIL® LR 7600/50 A/B

Silicone

Wacker Chemie AG

Message:

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 7600/50 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 7600/50 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 Information			
Features	Good Electrical Properties		
	High Clarity		
	Opticals		
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	1.02	g/cm³	ISO 1183
Viscosity ¹	45	Pa · s	DIN 53019
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	50		DIN 53505
Tensile Strength	5.60	MPa	DIN 53504-S1
Tensile Elongation at Break	350	%	DIN 53504-S1
Tear Strength	20.0	kN/m	ASTM D624B
NOTE			
1.	shear rate 10 1/s		

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