



LSR 7070

Transparent Liquid Silicone Rubber for Injection Molding

Product Description

LSR 7070 liquid silicone rubber is a 70-duro transparent two-component liquid silicone rubber for injection molding. The product is designed to be used in a 1:1 mix ratio and typically cures rapidly to a high strength elastomer by heating.

Key Features and Typical Benefits

- Excellent transparency
- Excellent injection moldability

Typical Physical Properties

Uncured Properties		LSR 7070 A Liquid Silicone Rubber	LSR 7070 B Liquid Silicone Rubber	
Appearance		Transparent	Transparent	
Viscosity (23°C)	Pa·s (P)	250 (2500)	150 (1500)	
Mix Ratio by Weight		1:1		
CURED PROPERTIES (Press Cure 15 min @ 130°C)				
Density (23°C)		g/cm ³ 1.05		
Hardness (Type A)		70		
Tensile Strength		MPa (kgf/cm ²) 10.0 (98)		
Elongation		%		150
Tear Strength (Crescent)		N/mm (kgf/cm)		10 (10)
Refractive Index (n _D ²⁵)		1.41		

Typical property data values should not be used as specifications.

Potential Applications

- Packing, O-ring, keypad, switch cover and sport goggle



**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 140-200°C, the mixture typically cures within a few seconds with no byproducts. High curing speed and ease of demolding generally permit fully automated production of large numbers of articles in short cycle times.
- Although the viscosity of the mixture will be increased without heating, it usually can be injected for two days at 20°C. When stopping the machine for more days, clean the residual substance in the equipment with an appropriate solvent.

Note: Materials such as water, sulfur, nitrogen compounds, organic metallic salts, phosphorus compounds, etc. contained in the surface of the substrate can inhibit curing. It is recommended that a preliminary test be performed to determine the compatibility.

Patent Status

Technical subject matter in this publication is described and protected by one or more of the following Japanese patents and their foreign counterpart patents and/or patent applications: Japan Patent No. JP2008101056A. Other U.S. and foreign patents and/or patent applications not listed covering the subject matter may be relevant.

**Product Safety,
Handling and
Storage**

Customers considering the use of this product should review the latest Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at www.momentive.com or, upon request, from any Momentive Performance Materials representative. Use of other materials in conjunction with Momentive Performance Materials products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.



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LSR 7070



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