Silastic® 7-6860

Silicone

Dow Corning Corporation

Message:

Liquid Silicone Rubber raw materials for medical device and component fabrication in the Healthcare Industry
APPLICATION
SILASTIC BioMedical Grade Liquid Silicone Rubbers (7-6830, 7-6840, Q7-4840, Q7-4850, 7-4860, 7-4870 and 7-6860) are heat-cured elastomer raw materials for use by customers fabricating medical devices, including those intended for implantation in humans for less than 30 days.
DESCRIPTION
SILASTIC BioMedical Grade Liquid Silicone Rubbers (7-6830, 7-6840, Q7-4840, Q7-4850, 7-4860, 7-4870 and 7-6860) are a series of two-part platinum-catalyzed silicone elastomers specifically designed for liquid injection molding or supported extrusion. Each elastomer is supplied as a two-part kit (Part A and Part B), equal portions (by weight) of which must be thoroughly blended together prior to use. The elastomer is thermally cured via an addition-cure (platinum-catalyzed) reaction. When blended and cured as indicated, the resulting elastomer consists of crosslinked dimethyl and methyl-vinyl siloxane copolymers and reinforcing silica.
The SILASTIC BioMedical Grade Liquid Silicone Rubbers are available in a range of nominal hardness from 30 to 60, Durometer-Shore A. The elastomers can be used without any post-cure although if necessary, this may be employed to stabilize final properties. Furthermore, the elastomers are heat stable up to 204°C (400°F), can be autoclaved, and exhibit high gas permeability compared with most thermoset elastomers and thermoplastics.

General Information	
Features	High Gas Permeability Good coloring High pressure heating resistance
Uses	Medical/nursing supplies
Agency Ratings	EP Unspecified Rating ISO 10993-Part I USP Class VI
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm³	ASTM D792
Molding Shrinkage - Flow	1.9	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	57		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (200% Strain)	4.50	MPa	ASTM D412
Tensile Strength	10.0	MPa	ASTM D412
Tensile Elongation (Break)	580	%	ASTM D412
Tear Strength [1]	48.0	kN/m	ASTM D624
Compression Set	57	%	ASTM D395

NOTE	
1.	B mould

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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