Silastic® Q7-7870

Silicone

Dow Corning Corporation

Message:

Liquid Silicone Rubber (LSR) raw material for medical device and component fabrication in the Healthcare Industry
APPLICATIONS
Silastic® Q7-7840 Liquid Silicone Rubber, Silastic ® Q7-7850 Liquid Silicone Rubber, and Silastic ® Q7-7870 Liquid Silicone Rubber, Parts A and B, are heat-cured elastomers for use by customers fabricating medical devices, including those intended for implantation in humans for less than 30 days and non-implant applications.
Silastic Q7-7840 Liquid Silicone Rubber, Silastic Q7-7850 Liquid Silicone Rubber, and Silastic Q7-7870 Liquid Silicone Rubber are two-part platinum-catalyzed silicone elastomers specifically designed for liquid injection molding or supported extrusion. The 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 elastomers are thermally cured via an addition-cure (platinum catalyzed) reaction. When blended and cured as indicated the resulting elastomers consist of crosslinked dimethyl and methyl-vinyl siloxane copolymers and reinforcing silica.
The elastomer can be used without any post-cure. Furthermore, the cured elastomer is heat stable up to 204°C (400°F), can be autoclaved, and exhibits high gas permeability compared with most other thermoset elastomers and thermoplastics.

General Information	
Features	High Gas Permeability No frost Fast curing 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	1.14	g/cm³	ASTM D792
Molding Shrinkage - Flow	2.3	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	67		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (200% Strain)	5.00	MPa	ASTM D412
Tensile Strength	9.40	MPa	ASTM D412
Tensile Elongation (Break)	420	%	ASTM D412
Tear Strength [1]	45.8	kN/m	ASTM D624
Additional Information	**Nominal Value**	**Unit**	
Cure Rate - MDR T90 [2] (150°C)	31.0	sec	

NOTE	
1.	B mould
2.	3 min

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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