Dow Corning® C6-560

Silicone

Dow Corning Corporation

Message:

Liquid Silicone Rubber for device and component fabrication in the healthcare industry
APPLICATIONS
DOW CORNING Class VI Elastomers (C6-530, C6-540, C6-550, C6-560, C6-570) Parts A & B are platinum-catalyzed materials designed for part fabrication and medical devices, including those intended for implantation in humans for up to 29 days.
DESCRIPTION
DOW CORNING Class VI Elastomers (C6-530, C6-540, C6-550, C6-560, C6-570) Parts A & B are a series of two-part platinum-catalyzed silicone elastomers. Each elastomer is supplied as a two-part kit (Part A and Part B), equal portions 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 elastomers are available in a range of nominal hardness from 30 to 70, 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
	No frost
	Workability, good
	Fast curing
	Good coloring
	High pressure heating resistance
Uses	Medical/nursing supplies
Agency Ratings	EP Unspecified Rating
	ISO 10993-Part I
	USP Class VI

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm³	ASTM D792
Molding Shrinkage - Flow	2.7	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	58		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (200% Strain)	3.97	MPa	ASTM D412
Tensile Strength	8.83	MPa	ASTM D412
Tensile Elongation (Break)	540	%	ASTM D412
Tear Strength [1]	50.9	kN/m	ASTM D624
NOTE			
1.	B mould		

infringement occurs, please contact us immediately.

Recommended distributors for this material

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