Dow Corning® C6-180

Silicone

Dow Corning Corporation

Message:

High Consistency Rubber silicone elastomers for device and component fabrication in the healthcare industry.
APPLICATIONS
DOW CORNING Class VI Elastomers (C6-135, C6-150, C6-165, C6-180) Parts A & B are platinum-catalyzed heat-cure silicone High Consistency Rubbers for part fabrication, extrusion and medical devices, including those intended for implantation in humans for up to 29 days.
DESCRIPTION
DOW CORNING Class VI Elastomers (C6-135, C6-150, C6-165, C6-180) Parts A & B are a series of two-part platinum-catalyzed silicone elastomers. Each elastomer is supplied as a two-part kit (Part A & 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 35 to 80, durometer, Shore A. The elastomers can normally 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 Good coloring High pressure heating resistance
Uses	Medical/nursing supplies
Agency Ratings	ISO 10993-Part I USP Class VI
Processing Method	Extrusion

Physical	Nominal Value	Unit	Test Method
Molding Shrinkage - Flow	1.8	%	

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	77		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (200% Strain)	3.68	MPa	ASTM D412
Tensile Strength	7.23	MPa	ASTM D412
Tensile Elongation (Break)	610	%	ASTM D412
Tear Strength [1]	39.1	kN/m	ASTM D624

NOTE	
1.	B mould

Recommended distributors for this material

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