

Dow Corning® C6-750

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	1.13	g/cm ³	ASTM D792
Molding Shrinkage - Flow	2.3	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	48		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (200% Strain)	2.70	MPa	ASTM D412
Tensile Strength	8.80	MPa	ASTM D412
Tensile Elongation (Break)	610	%	ASTM D412
Tear Strength ¹	42.5	kN/m	ASTM D624
Additional Information	Nominal Value	Unit	
Cure Rate - MDR T90 ² (150°C)	29.0	sec	
NOTE			
1.	B mould		

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