Dow Corning® C6-235

Silicone

Dow Corning Corporation

Message:

High consistency rubber raw materials for healthcare industry fabrication
APPLICATIONS
Dow Corning® Class VI Elastomers (C6-235, C6-250, C6-265) are uncatalyzed silicone elastomer bases designed for compounding into elastomer for part fabrication and medical devices, including those intended for implantation in humans for up to 29 days.
DESCRIPTION
Dow Corning Class VI Elastomers (C6-235, C6-250, C6-265) are a series of one-part uncatalyzed silicone elastomer raw materials. The addition of a catalyst is necessary to accomplish cure. The resulting elastomers range in hardness from soft to firm (nominally 35 to 65, shore A durometer). These materials may be blended if desired to achieve intermediate hardnesses.
After appropriate compounding with a catalyst, cure and post-cure, 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	Composite Medical/nursing supplies
Agency Ratings	ISO 10993-Part I USP Class VI
Processing Method	Composite

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm³	ASTM D792
Molding Shrinkage - Flow	2.1	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	37		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (200% Strain)	1.50	MPa	ASTM D412
Tensile Strength	8.50	MPa	ASTM D412
Tensile Elongation (Break)	1100	%	ASTM D412
Tear Strength [1]	37.0	kN/m	ASTM D624

NOTE	
1.	B mould

Recommended distributors for this material

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