

Dow Corning® C6-250

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	1.16	g/cm ³	ASTM D792
Molding Shrinkage - Flow	2.0	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	51		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (200% Strain)	2.20	MPa	ASTM D412
Tensile Strength	9.10	MPa	ASTM D412
Tensile Elongation (Break)	840	%	ASTM D412
Tear Strength ¹	41.0	kN/m	ASTM D624
NOTE			
1.	B mould		

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