

Silastic® Q7-4535

Silicone
Dow Corning Corporation

Message:

Enhanced Tear Resistant (ETR) High Consistency Rubber silicone elastomers for peroxide cure

APPLICATIONS

SILASTIC BioMedical Grade ETR Elastomers (Q7-4535, Q7-4550, Q7-4565) are uncatalyzed elastomer materials designed for compounding into elastomer for part fabrication and medical devices.

DESCRIPTION

SILASTIC BioMedical Grade ETR Elastomers (Q7-4535, Q7-4550, Q7-4565) are a series of one-part uncatalyzed silicone elastomer raw materials. The addition of a peroxide catalyst is necessary to accomplish vulcanization.

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 peroxide 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		
	High pressure heating resistance		
Uses	Composite		
	Medical/nursing supplies		
Agency Ratings	EP Unspecified Rating		
	ISO 10993-Part I		
	USP Class VI		
Processing Method	Composite		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	29		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (200% Strain)	0.900	MPa	ASTM D412
Tensile Strength	8.40	MPa	ASTM D412
Tensile Elongation (Break)	1000	%	ASTM D412
Tear Strength ¹	22.0	kN/m	ASTM D624
Additional Information			
Values are for samples crosslinked with Perkadox PD-505.			
NOTE			
1.	B mould		

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