Silastic® Q7-4565

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	1.20	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	63		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (200% Strain)	2.80	MPa	ASTM D412
Tensile Strength	7.90	MPa	ASTM D412
Tensile Elongation (Break)	660	%	ASTM D412
Tear Strength [1]	47.0	kN/m	ASTM D624
Additional Information			
Values are for samples crosslinked with Perkadox PD-505.			
NOTE			
1.	B mould		

Recommended distributors for this material

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