

Silastic® Q7-4550

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	1.16	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	51		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (200% Strain)	2.30	MPa	ASTM D412
Tensile Strength	10.1	MPa	ASTM D412
Tensile Elongation (Break)	660	%	ASTM D412
Tear Strength ¹	30.0	kN/m	ASTM D624
Additional Information			
Values are for samples crosslinked with Perkadox PD-505.			
NOTE			
1.	B mould		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT