

Silastic® Q7-4735

Silicone

Dow Corning Corporation

Message:

Raw materials for medical device fabrication in the Healthcare Industry

APPLICATIONS

Silastic® BioMedical Grade ETR Elastomers (Q7-4720, Q7-4735, Q7-4750, Q7-4765, and Q7-4780) are heat-cured high consistency silicone rubbers designed for use by customers fabricating medical devices, including those intended for implantation in humans for less than 30 days.

DESCRIPTION

Silastic BioMedical Grade ETR Elastomers (Q7-4720, Q7-4735, Q7-4750, Q7-4765, and Q7-4780) are a series of two-part, enhanced-tear-resistant (ETR) silicone elastomers that consist of dimethyl and methylvinyl siloxane copolymers and reinforcing silica. The elastomers exhibit a range of hardness from soft (20 Shore A) to firm (80 Shore A). Each elastomer is supplied as a two-component kit (Part A and Part B), equal portions (by weight) of which must be thoroughly blended together prior to use. The elastomer is then thermally cured via addition-cure (platinum-cure) chemistry

General Information			
Features	High Gas Permeability No frost Radiation disinfection Pressure cooker disinfection Ethylene oxide disinfection Good coloring High pressure heating resistance Compliance of Food Exposure		
Uses	Medical/nursing supplies		
Agency Ratings	FDA 21 CFR 177.2600		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.6	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	35		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (200% Strain)	1.11	MPa	ASTM D412
Tensile Strength	9.84	MPa	ASTM D412
Tensile Elongation (Break)	1200	%	ASTM D412
Tear Strength ¹	36.6	kN/m	ASTM D624
Compression Set	43	%	ASTM D395
NOTE			
1.	B mould		

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