NuSil MED-2045

Rubber

NuSil Technology

Message:

NuSil Technology's restricted materials may be considered for use in short-term implant applications, 29 days or less, or for external applications.
High consistency rubber, or HCR, consists of high molecular weight polymer combined with silica to produce a material that can be molded, extruded, or calendared into a useful end product. An HCR has the consistency of clay and is primarily formulated in a one or two part system (peroxide and platinum catalysts respectively).
Most platinum cure high consistency rubbers are two component systems with an easy-to-work-with 1:1 mix ratio.
Comments: MIX RATIO 100 (A): 0.7 (B): 0.16 (C)

General Information	
Filler / Reinforcement	Silica gel filler
Features	High molecular weight Low shrinkage
Uses	Medical/nursing supplies
Agency Ratings	USP Class VI
Processing Method	Extrusion Calendering Injection molding

Mechanical	Nominal Value	Unit
Tensile Strength (200% Strain)	1.38	MPa
Thermoset	**Nominal Value**	**Unit**
Thermoset Components		
Part C	Mixing ratio by weight: 0.16	
Component a	Mixing ratio by weight: 100	
Component B	Mixing ratio by weight: 0.70	
Post Cure Time (148°C)	2.0	hr
Additional Information	**Nominal Value**	**Unit**
Cure System	Platinum	
Plasticity: 95 mils		
Uncured Properties	**Nominal Value**	**Unit**
Density	1.13	g/cm³
Curing Time (171°C)	0.17	hr
Cured Properties	**Nominal Value**	**Unit**
Shore Hardness (Shore A)	40	
Tensile Strength	10.5	MPa
Tensile Elongation at Break	800	%
Tear Strength	35.0	kN/m

Recommended distributors for this material

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