NuSil MED-4780

Rubber

NuSil Technology

Message:

NuSil Technology's unrestricted materials may be considered for long-term implant applications (greater than 29 days).
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: HIGH TEAR

General Information	
Filler / Reinforcement	Silica gel filler
Features	High molecular weight Good tear strength 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)	3.28	MPa
Thermoset	**Nominal Value**	**Unit**
Thermoset Components		
Component a	Mixing ratio by weight: 1.0	
Component B	Mixing ratio by weight: 1.0	
Additional Information	**Nominal Value**	**Unit**
Cure System	Platinum	
Plasticity: 145 mils		
Uncured Properties	**Nominal Value**	**Unit**
Density	1.21	g/cm^3
Curing Time (116°C)	0.17	hr
Pot Life (25°C)	270	min
Cured Properties	**Nominal Value**	**Unit**
Shore Hardness (Shore A)	80	
Tensile Strength	7.58	MPa
Tensile Elongation at Break	700	%
Tear Strength	37.7	kN/m

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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