

NuSil MED-4055

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: ULTRA 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 (100% Strain)	2.65	MPa

Thermoset	Nominal Value	Unit
Thermoset Components		
Component a	Mixing ratio by weight: 1.0	
Component B	Mixing ratio by weight: 1.0	
Post Cure Time (177°C)	4.0	hr

Additional Information	Nominal Value	Unit
Cure System	Platinum	
Plasticity: 80 mils		

Uncured Properties	Nominal Value	Unit
Density	1.15	g/cm³
Curing Time (138°C)	0.17	hr
Pot Life (25°C)	120	min

Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	55	
Tensile Strength	10.9	MPa
Tensile Elongation at Break	900	%
Tear Strength	52.5	kN/m

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