

# NuSil MED-4770

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: ABRASION / FATIGUE RESISTANT

General Information		
Filler / Reinforcement	Silica gel filler	
Features	High molecular weight	
	Good wear resistance	
	Fatigue resistance	
	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)	4.14	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: 110 mils		
Uncured Properties	Nominal Value	Unit
Density	1.19	g/cm <sup>3</sup>
Curing Time (138°C)	0.17	hr
Pot Life (25°C)	120	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	70	
Tensile Strength	8.96	MPa
Tensile Elongation at Break	700	%

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Tear Strength

49.9

kN/m

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