

# NuSil MED-4080

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: 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 <sup>3</sup>
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

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
Phone: +86 13424755533  
Email: sales@su-jiao.com  
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

