

# NuSil MED-4050

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)	2.07	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: 100 mils		
Uncured Properties	Nominal Value	Unit
Density	1.16	g/cm³
Curing Time (116°C)	0.17	hr
Pot Life (25°C)	300	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	50	
Tensile Strength	10.0	MPa
Tensile Elongation at Break	1000	%
Tear Strength	43.8	kN/m

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

