

NuSil MED-4550

Rubber

NuSil Technology

Message:

NuSil Technology's unrestricted materials may be considered for long-term implant applications (greater than 29 days). HCRs can be used for extrusion of tubing and profiles (rod or ribbon), in calendared sheeting for die-cutting, or in compression or transfer molded parts such as balloons, gaskets or o-rings. HCRs are clay-like in the uncured state and when cured generally exhibit very high mechanical properties and low modulus. HCRs with a peroxide cure system have a long history in implant applications. The cure mechanism can be vinyl specific or non vinyl specific. Non vinyl specific peroxide catalysts are more commonly used with HCRs than vinyl specific peroxide catalysts.

Comments: UNCATALYZED

General Information		
Uses	Washer	
	Pipe fittings	
	Balloon application	
	Profile	
	Medical/nursing supplies	
Agency Ratings	USP Class VI	
Processing Method	Extrusion	
	Resin transfer molding	
	Profile extrusion molding	
	Compression molding	
	Calendering	
Mechanical	Nominal Value	Unit
Tensile Strength (200% Strain)	2.07	MPa
Thermoset	Nominal Value	Unit
Post Cure Time (177°C)	2.0	hr
Additional Information	Nominal Value	Unit
Cure System	Peroxide	
Plasticity: 100 mils		
Uncured Properties	Nominal Value	Unit
Density	1.16	g/cm ³
Curing Time (116°C)	0.083	hr
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	50	
Tensile Strength	10.0	MPa
Tensile Elongation at Break	700	%
Tear Strength	31.5	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

