

NuSil MED-4520

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)	0.758	MPa
Thermoset	Nominal Value	Unit
Post Cure Time (177°C)	2.0	hr
Additional Information	Nominal Value	Unit
Cure System	Peroxide	
Plasticity: 65 mils		
Uncured Properties	Nominal Value	Unit
Density	1.10	g/cm³
Curing Time (116°C)	0.083	hr
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	25	
Tensile Strength	9.31	MPa
Tensile Elongation at Break	950	%
Tear Strength	24.5	kN/m

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