NuSil MED4-4116

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.
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: NON-VINYL SPECIFIC PEROXIDE PRECATALYZED

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)	4.14	MPa
Thermoset	**Nominal Value**	**Unit**
Post Cure Time (249°C)	2.0	hr
Additional Information	**Nominal Value**	**Unit**
Cure System	Peroxide	
Plasticity: 120 mils		
Uncured Properties	**Nominal Value**	**Unit**
Density	1.21	g/cm^3
Curing Time (116°C)	0.083	hr
Cured Properties	**Nominal Value**	**Unit**
Shore Hardness (Shore A)	70	
Tensile Strength	9.31	MPa
Tensile Elongation at Break	400	%
Tear Strength	21.9	kN/m

Recommended distributors for this material

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