

# NuSil MED-4970

Silicone Rubber, LSR

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. Liquid silicone rubbers, or LSRs, are elastomer systems reinforced with silica. They contain functional polymers of lower average molecular weight and viscosity when compared to high consistency rubbers (HCRs). They are typically supplied as two-component systems and formulated in a 1:1 mix ratio. Because their consistency is akin to petroleum jelly, they are often pumped with injection molding equipment to form molded components such as o-rings, gaskets, valves, seals, and other precision molded parts. LSRs are designed for liquid injection molding (LIM) processes which may utilize single or multi-cavity molds, or for overmolding processes. Originally designed for automated systems, they are developed with high volume applications in mind and benefit from their high strength.

Comments: INJECTION MOLDING ELASTOMER

General Information		
Filler / Reinforcement	Silica	
Features	Fast Cure	
	Good Colorability	
	High Strength	
Uses	Gaskets	
	Medical/Healthcare Applications	
	Overmolding	
	Seals	
	Valves/Valve Parts	
Agency Ratings	USP Class VI	
Forms	Liquid	
Processing Method	Liquid Injection Molding (LIM)	
Mechanical	Nominal Value	Unit
Tensile Strength (200% Strain)	5.17	MPa
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 1.0	
Part B	Mix Ratio by Weight: 1.0	
Additional Information	Nominal Value	Unit
Cure System	Platinum	
Extrusion Rate	40.0	g/min
Uncured Properties	Nominal Value	Unit
Density	1.16	g/cm <sup>3</sup>
Curing Time (165°C)	0.083	hr
Pot Life (25°C)	> 1400	min
Cured Properties	Nominal Value	Unit

Shore Hardness (Shore A)	70	
Tensile Strength	8.62	MPa
Tensile Elongation at Break	300	%
Tear Strength	32.4	kN/m

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