NuSil MED-4901

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: LOW DUROMETER LSR

General Information		
Filler / Reinforcement	Silica	
Features	Fast Cure Good Colorability High Strength Low Hardness	
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 (300% Strain)	0.103	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	160	g/min
Uncured Properties	**Nominal Value**	**Unit**
Density	1.09	g/cm^3
Curing Time (150°C)	0.083	hr
Pot Life (25°C)	780	min

Cured Properties	Nominal Value	Unit
Shore Hardness (Shore OO)	40	
Tensile Strength	2.17	MPa
Tensile Elongation at Break	1100	%
Tear Strength	10.5	kN/m

Recommended distributors for this material

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WECHAT