NuSil MED10-6640

Silicone

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. "Dispersion" is a term used to describe a silicone elastomer system that is suspended or dispersed in a solvent carrier. It is a complex solution that contains silicone polymers of various molecular weights and reinforcing fillers. The substituent groups comprising the polymer back bone structure may consist of the following: Polydimethylsiloxane, Dimethyl Diphenyl copolymer, and Fluoro homo polymer or copolymer. Silicone dispersions typically have low viscosities, which is beneficial for applications wherein a thin film coating is needed, and they can easily be used in dipping and spraying processes. NuSil uses a variety of solvents to disperse silicones, such as xylene, tert butyl acetate, heptane, hexane, acetone and naphtha.
Comments: ULTRA HIGH TEAR, IN XYLENE

General Information	
Filler / Reinforcement	Filler
Features	Good Tear Strength Low Viscosity
Uses	Coating Applications Medical/Healthcare Applications
Agency Ratings	USP Class VI
Forms	Dispersion
Processing Method	Dip Coating Spraying

Mechanical	Nominal Value	Unit
Tensile Strength (100% Strain)	1.07	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	
Uncured Properties	**Nominal Value**	**Unit**
Density	1.12	g/cm^3
Viscosity	3.5	Pa·s
Curing Time [1]	3.5	hr
Pot Life (25°C)	1400	min
Cured Properties	**Nominal Value**	**Unit**
Shore Hardness (Shore A)	40	
Tensile Strength	11.7	MPa
Tensile Elongation at Break	1000	%

Tear Strength	52.5	kN/m

NOTE	
1.	30m/25°C + 45m/75°C + 135m/150°C

Recommended distributors for this material

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WECHAT