

NuSil MED-6640

Silicone

NuSil Technology

Message:

NuSil Technology's unrestricted materials may be considered for long-term implant applications (greater than 29 days). "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)	1.03	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	

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