

NuSil MED-6605

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: ONE PART, IN XYLENE

General Information		
Filler / Reinforcement	Filler	
Features	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 (300% Strain)	1.10	MPa

Additional Information	Nominal Value	Unit
Cure System	Acetoxys	

Uncured Properties	Nominal Value	Unit
Density	1.09	g/cm ³
Viscosity	0.70	Pa · s
Curing Time (23°C)	1.2E+2	hr

Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	25	
Tensile Strength	9.83	MPa
Tensile Elongation at Break	950	%
Tear Strength	21.9	kN/m

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