

NuSil MED10-6605

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: 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	Acetoxy	
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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