

NuSil MED-6820

Silicone

NuSil Technology

Message:

NuSil Technology's unrestricted materials may be considered for long-term implant applications (greater than 29 days). Low consistency elastomers (LCEs) are useful alternatives to liquid silicone rubber (LSR) and high consistency rubber (HCR) for end users who need a low viscosity elastomer which provides other unique properties. LCEs lend themselves to applications that require a pourable, self-leveling silicone. Applications include: encapsulating a device, backfilling a void, potting an electronic component that cannot withstand exposure to high heat, or prototyping a mold.

Comments: 1.43 R.I., OPTICALLY CLEAR

General Information		
Features	Good Processability	
	Low Viscosity	
Uses	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
Agency Ratings	USP Class VI	
Appearance	Clear/Transparent	
Processing Method	Encapsulating	
	Potting	
Optical	Nominal Value	
Refractive Index	1.430	
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	1.05	g/cm ³
Viscosity		
-- 1	40	Pa · s
-- 2	70	Pa · s
Curing Time (150°C)	0.50	hr
Pot Life (25°C)	240	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	40	
Tensile Strength	4.41	MPa
Tensile Elongation at Break	180	%

Tear Strength	6.13	kN/m
NOTE		
1.	Part B	
2.	Part A	

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