

NuSil MED-4244

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: FLOWABLE, MEDIUM DUROMETER

General Information		
Features	Good Flow	
	Good Processability	
	Low Viscosity	
	Medium Hardness	
Uses	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
Agency Ratings	USP Class VI	
Appearance	Clear/Transparent	
Processing Method	Encapsulating	
	Potting	
Mechanical	Nominal Value	Unit
Tensile Strength (200% Strain)	3.31	MPa
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 10	
Part B	Mix Ratio by Weight: 1.0	
Post Cure Time (150°C)	1.0	hr
Additional Information	Nominal Value	Unit
Cure System	Platinum	
Uncured Properties	Nominal Value	Unit
Density	1.10	g/cm ³
Viscosity		
-- 1	0.27	Pa · s
-- 2	120	Pa · s
Curing Time (177°C)	0.083	hr
Pot Life (25°C)	240	min
Cured Properties	Nominal Value	Unit

Shore Hardness (Shore A)	40	
Tensile Strength	5.86	MPa
Tensile Elongation at Break	300	%
Tear Strength	26.3	kN/m
NOTE		
1.	Part B	
2.	Part A	

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