

# NuSil MED-4211

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

General Information		
Features	Good Flow	
	Good Processability	
	Low Viscosity	
Uses	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
Agency Ratings	USP Class VI	
Appearance	Clear/Transparent	
Processing Method	Encapsulating	
	Potting	
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	1.09	g/cm <sup>3</sup>
Viscosity		
-- 1	1.6	Pa · s
-- 2	110	Pa · s
Curing Time (150°C)	0.050	hr
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	25	
Tensile Strength	4.65	MPa
Tensile Elongation at Break	530	%
NOTE		

1.	Part B
2.	Part A

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