# NuSil MED-4086

#### 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. 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: ULTRA SOFT ELASTOMER

Low Viscosity Soft  Uses  Electrical/Electronic Applications Medical/Healthcare Applications  Medical/Healthcare Applications  Medical/Healthcare Applications  Agency Ratings  USP Class VI Appearance Clear/Transparent Processing Method Encapsulating Potting  Mechanical Nominal Value Unit  Ternsile Strength (200% Strain) 0.0552 MPa  Thermoset Nominal Value Unit  Thermoset Components  Part A Mix Ratio by Weight: 1.0 Part B Mix Ratio by Weight: 1.0 Part B Mix Ratio by Weight: 1.0 Additional Information Nominal Value Unit  Uncured Properties Nominal Value Unit  Uncured Properties Nominal Value Unit  Unit  Cure System Platinum  Uncured Properties Nominal Value Unit  Cure System Platinum  Uncured Properties Nominal Value Unit  Cure Unit  Cure System Platinum  Uncured Properties Nominal Value Unit  Cure Unit  Cure Unit  Cure Vergenties Nominal Value Unit  Cured Properties Nominal Value Unit  C	General Information			
Uses  Electrical/Electronic Applications  Medical/Healthcare Applications  Medical/Healthcare Applications  Agency Ratings  USP Class VI Appearance Clear/Transparent  Encapsulating Potting  Mechanical Nominal Value Unit  Tensile Strength (200% Strain) 0.0552 MPa  Themoset Nominal Value Unit  Thermoset Components  Part A Mix Ratio by Weight: 1.0 Part B Mix Ratio by Weight: 1.0 Part B Mix Ratio by Weight: 1.0 Victority  Unit  Uncured Properties Nominal Value Unit  Unit  Unit  Cure System Platinum  Uncured Properties Nominal Value Vinit 1 A.62 B.3 B.3 Pars  Curing Time (150°C) B.40 Mix Ratio by Weight: Unit  Cured Properties Nominal Value Vinit  Cured Properties Vinit Value	Features	Good Processability		
Uses Electrical/Electronic Applications Medical/Healthcare Applications Medical/Healthcare Applications  Agency Ratings USP Class VI  Appearance Clear/Transparent  Processing Method Encapsulating Potting  Mechanical Nominal Value Unit  Tensile Strength (200% Strain) 0.0552 MPa  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  Viscosity 1 4.6 Par 52 8.3 Par 52 8.3 Par 5  Curing Time (150°C) 840 min  Cured Properties Nominal Value Unit  Shore Hardness (Shore OOO) 55  Tensile Strength 0.276 MPa		Low Viscosity		
Agency Ratings USP Class VI Appearance Clear/Transparent Processing Method Encapsulating Potiting  Mechanical Nominal Value Unit Tensile Strength (200% Strain) 0.0552 MPa Thermoset Nominal Value Unit Thermoset Components Part A Mix Ratio by Weight: 1.0 Part B Mix Ratio by Weight: 1.0 Part B Mix Ratio by Weight: 1.0 Value Unit Cure System Platinum Uncured Properties Nominal Value Unit Viscosity 1 4.62 8.32 8.32 8.33 Curing Time (150°C) 0.75 hr Pot Life (25°C) 840 Nominal Value Unit Shore Hardness (Shore OOO) 55 Tensile Strength 0.276 MPa		Soft		
Agency Ratings USP Class VI Appearance Clear/Transparent Processing Method Encapsulating Potiting  Mechanical Nominal Value Unit Tensile Strength (200% Strain) 0.0552 MPa Thermoset Nominal Value Unit Thermoset Components Part A Mix Ratio by Weight: 1.0 Part B Mix Ratio by Weight: 1.0 Part B Mix Ratio by Weight: 1.0 Value Unit Cure System Platinum Uncured Properties Nominal Value Unit Viscosity 1 4.62 8.32 8.32 8.33 Curing Time (150°C) 0.75 hr Pot Life (25°C) 840 Nominal Value Unit Shore Hardness (Shore OOO) 55 Tensile Strength 0.276 MPa				
Agency Ratings  Appearance  Clear/Transparent  Encapsulating Potting  Mechanical  Nominal Value  Unit  Tensile Strength (200% Strain)  0.0552  MPa  Thermoset  Nominal Value  Unit  Max Ratio by Weight: 1.0  Additional Information  Nominal Value  Unit  Unit  Unit  Cure System  Platinum  Uncured Properties  Nominal Value  Unit  Unit  Cure System  Platinum  Uncured Properties  Nominal Value  Unit  Unit  Cure System  Platinum  Uncured Properties  Nominal Value  Unit  Cure System  Platinum  Uncured Properties  Nominal Value  Unit  Cure System  Par's 1  4.6  Par's 2  8.3  Par's  Curing Time (150°C)  0.75  hr  Pot Life (25°C)  840  min  Cured Properties  Nominal Value  Unit  Shore Hardness (Shore OOO)  55  Tensile Strength  MPa	Uses	Electrical/Electronic Applications		
Appearance Clear/Transparent Processing Method Encapsulating Potting  Mechanical Nominal Value Unit Tensile Strength (200% Strain) 0.0552 MPa Thermoset Nominal Value Unit Thermoset Components  Part A Mix Ratio by Weight: 1.0 Part B Mix Ratio by Weight: 1.0 Part B Mix Ratio by Weight: 1.0  Cure System Platinum  Uncured Properties Nominal Value Unit  Viscosity 1 4.6 Pars2 8.3 Pars  Curing Time (150°C) 0.75 hr  Pot Life (25°C) 840 min  Cured Properties Nominal Value Unit  Shore Hardness (Shore OOO) 55  Tensile Strength 0.276 MPa		Medical/Healthcare Applications		
Appearance Clear/Transparent Processing Method Encapsulating Potting  Mechanical Nominal Value Unit Tensile Strength (200% Strain) 0.0552 MPa Thermoset Nominal Value Unit Thermoset Components  Part A Mix Ratio by Weight: 1.0 Part B Mix Ratio by Weight: 1.0 Part B Mix Ratio by Weight: 1.0  Cure System Platinum  Uncured Properties Nominal Value Unit  Viscosity 1 4.6 Pars2 8.3 Pars  Curing Time (150°C) 0.75 hr  Pot Life (25°C) 840 min  Cured Properties Nominal Value Unit  Shore Hardness (Shore OOO) 55  Tensile Strength 0.276 MPa				
Processing Method  Encapsulating Potting  Mechanical  Nominal Value  Unit  Tensile Strength (200% Strain)  0.0552  MPa  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  Viscosity 1  4.6  Pars 2  8.3  Pars  Curing Time (150°C)  0.75  hr  Pot Life (25°C)  840  min  Cured Properties  Nominal Value  Unit  Shore Hardness (Shore OOO)  55  Tensile Strength  0.276  MPa	Agency Ratings	USP Class VI		
Potting  Mechanical Nominal Value Unit  Tensile Strength (200% Strain) 0.0552 MPa  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  Viscosity 1 4.6 Pars2 8.3 Pars  Curing Time (150°C) 0.75 hr  Pot Life (25°C) 840 min  Cured Properties Nominal Value Unit  Shore Hardness (Shore OOO) 55  Tensile Strength 0.276 MPa	Appearance	Clear/Transparent		
Mechanical Nominal Value Unit Tensile Strength (200% Strain) 0.0552 MPa  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  Viscosity 1 4.6 Pars2 8.3 Pars 1 4.6 Pars2 8.3 Pars  Curing Time (150°C) 0.75 hr  Pot Life (25°C) 840 min  Cured Properties Nominal Value Unit  Shore Hardness (Shore OOO) 55  Tensile Strength 0.276 MPa	Processing Method	Encapsulating		
Tensile Strength (200% Strain)  O.0552  MPa  Thermoset  Nominal Value  Mix Ratio by Weight: 1.0  Part B  Mix Ratio by Weight: 1.0  Additional Information  Nominal Value  Unit		Potting		
Tensile Strength (200% Strain)  O.0552  MPa  Thermoset  Nominal Value  Mix Ratio by Weight: 1.0  Part B  Mix Ratio by Weight: 1.0  Additional Information  Nominal Value  Unit				
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  Viscosity 1 4.6 Pars2 8.3 Pars  Curing Time (150°C) 0.75 hr  Pot Life (25°C) 840 min  Cured Properties Nominal Value Unit  Cured Properties Nominal Value Unit  Mix Ratio by Weight: 1.0  Mix Ratio by Weight: 1.0  Unit  Unit  Cured Properties Unit  Pars  Alford Pars  In min  Cured Properties Nominal Value Unit  MPa  MPa	Mechanical	Nominal Value	Unit	
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  Viscosity 1 4.6 Par·s 2 8.3 Pa·s  Curing Time (150°C) 0.75 hr  Pot Life (25°C) 840 min  Cured Properties Nominal Value Unit  Shore Hardness (Shore OOO) 55  Tensile Strength 0.276 MPa	Tensile Strength (200% Strain)	0.0552	MPa	
Part A Mix Ratio by Weight: 1.0  Additional Information Nominal Value Unit  Cure System Platinum  Uncured Properties Nominal Value Unit  Viscosity 1 4.6 Pa·s 2 8.3 Pa·s  Curing Time (150°C) 0.75 hr  Pot Life (25°C) 840 min  Cured Properties Nominal Value Unit  Cured Properties Mominal Value Winit  Mix Ratio by Weight: 1.0  Unit  Unit  Pa·s  Curing Time (150°C) 0.75 hr  Curing Time (150°C) 840 min  Cured Properties Nominal Value Unit  Shore Hardness (Shore OOO) 55  Tensile Strength 0.276 MPa	Thermoset	Nominal Value	Unit	
Part B Mix Ratio by Weight: 1.0  Additional Information Nominal Value Unit  Cure System Platinum  Uncured Properties Nominal Value Unit  Viscosity  1 4.6 Pa·s 2 8.3 Pa·s  Curing Time (150°C) 0.75 hr  Pot Life (25°C) 840 min  Cured Properties Nominal Value Unit  Shore Hardness (Shore OOO) 55  Tensile Strength 0.276 MPa	Thermoset Components			
Additional Information Nominal Value Unit  Cure System Platinum  Uncured Properties Nominal Value Unit  Viscosity 1 4.6 Pa·s 2 8.3 Pa·s  Curing Time (150°C) 0.75 hr  Pot Life (25°C) 840 min  Cured Properties Nominal Value Unit  Shore Hardness (Shore OOO) 55  Tensile Strength 0.276 MPa	Part A	Mix Ratio by Weight: 1.0		
Cure System Platinum Uncured Properties Nominal Value Unit Viscosity 1 4.6 Pa·s 2 8.3 Pa·s Curing Time (150°C) 0.75 hr Pot Life (25°C) 840 min Cured Properties Nominal Value Unit Shore Hardness (Shore OOO) 55 Tensile Strength 0.276 MPa	Part B	Mix Ratio by Weight: 1.0		
Uncured Properties  Nominal Value  Unit  Viscosity  1  4.6  Pa·s  2  8.3  Curing Time (150°C)  Pot Life (25°C)  840  min  Cured Properties  Nominal Value  Unit  Shore Hardness (Shore OOO)  55  Tensile Strength  Unit  MPa	Additional Information	Nominal Value	Unit	
Viscosity           1         4.6         Pa·s           2         8.3         Pa·s           Curing Time (150°C)         0.75         hr           Pot Life (25°C)         840         min           Cured Properties         Nominal Value         Unit           Shore Hardness (Shore OOO)         55           Tensile Strength         0.276         MPa	Cure System	Platinum		
1 2 8.3 Curing Time (150°C) 0.75 hr Pot Life (25°C) 840 min Cured Properties Nominal Value Unit Shore Hardness (Shore OOO) 55 Tensile Strength 0.276 MPa	Uncured Properties	Nominal Value	Unit	
22 8.3 Pa·s Curing Time (150°C) 0.75 hr Pot Life (25°C) 840 min Cured Properties Nominal Value Unit Shore Hardness (Shore OOO) 55 Tensile Strength 0.276 MPa	Viscosity			
Curing Time (150°C) 0.75 hr  Pot Life (25°C) 840 min  Cured Properties Nominal Value Unit  Shore Hardness (Shore OOO) 55  Tensile Strength 0.276 MPa	1	4.6	Pa·s	
Pot Life (25°C) 840 min  Cured Properties Nominal Value Unit  Shore Hardness (Shore OOO) 55  Tensile Strength 0.276 MPa	<sup>2</sup>	8.3	Pa·s	
Cured Properties     Nominal Value     Unit       Shore Hardness (Shore OOO)     55       Tensile Strength     0.276     MPa	Curing Time (150°C)	0.75	hr	
Shore Hardness (Shore OOO) 55 Tensile Strength 0.276 MPa	Pot Life (25°C)	840	min	
Tensile Strength 0.276 MPa	Cured Properties	Nominal Value	Unit	
	Shore Hardness (Shore OOO)	55		
Tensile Elongation at Break 480 %	Tensile Strength	0.276	MPa	
	Tensile Elongation at Break	480	%	

NOTE		
1.	Part B	
2.	Part A	

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