

NuSil EPM-2493

Silicone

NuSil Technology

Message:

As a low stress alternative for electronic packaging, NuSil Technology's silicones allow the designer to choose from a unique line of silicones for various levels of packaging. We have an extensive line of encapsulants, adhesives, and greases to choose from. These include thermally and electrically conductive silicones for Thermal Interface Materials (TIM) or for EMI and RFI shielding applications.

Benefits of Silicone for Electronics:

Wide Operating Temperature Range of -115 °C to 250 °C

Low moisture absorption, < 0.4% Typical

Corrosion Resistance

High Dielectric Strength > 500 V/mil (0.001 inch) or 20 kV/mm

Fillers can be added to provide thermal and electrical conductive properties

Low Modulus (Typically less than 5.5 MPa/800 psi)

Stable chemical and mechanical properties when exposed to high temperatures

Low Shrinkage

Available as gels, elastomers, film adhesives sheeting, and greases

General Purpose: Thermal Interface Materials (TIMs)

Comments: 1.0 W/m-K. BLT 25 µn, Al filled. Available as I Part

General Information			
Filler / Reinforcement	Aluminum		
Features	Good Corrosion Resistance		
	Good Thermal Stability		
	Low Moisture Absorption		
	Low Shrinkage		
	Thermally Conductive		
Uses	Electrical/Electronic Applications		
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	1.5E-4	cm/cm/°C	
Thermal Conductivity	1.0	W/m/K	ASTM E1530
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		
Ionic Content			
Cl	< 11	ppm	
K	< 3	ppm	
Na	< 8	ppm	
Operating Temperature	-65 to 250	°C	
Uncured Properties	Nominal Value	Unit	
Color	White		

Density	2.42	g/cm ³
Viscosity		
-- ¹	36	Pa·s
-- ²	37	Pa·s
Curing Time (150°C)	0.25	hr
Pot Life	300	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	55	
Lap Shear Strength ³	0.758	MPa
Tensile Strength	0.862	MPa
Tensile Elongation at Break	50	%
Tear Strength	4.38	kN/m
NOTE		
1.	Part B	
2.	Part A	
3.	Primed with SP-270	

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