

NuSil EPM-2463

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: 1.5 W/m-K, remains conductive over broad operating temperature range

General Information			
Features	Electrically Conductive		
	Good Corrosion Resistance		
	Good Thermal Stability		
	Low Moisture Absorption		
	Low Shrinkage		
Uses	Electrical/Electronic Applications		
Physical	Nominal Value	Unit	
Spiral Flow	10.2	cm	
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity	1.5	W/m/K	ASTM C177
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 0.50		
Additional Information	Nominal Value	Unit	
Cure System	Tin		
Ionic Content			
Cl	< 5	ppm	
K	< 10	ppm	
Na	< 5	ppm	
Operating Temperature	-115 to 260	°C	
Uncured Properties	Nominal Value	Unit	

Green

Color	Grey	
Density	3.29	g/cm ³
Curing Time (23°C)	1.7E+2	hr
Pot Life	120	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	80	
Lap Shear Strength ¹	1.21	MPa
Tensile Strength	2.07	MPa
Tensile Elongation at Break	75	%
Tear Strength	9.63	kN/m
NOTE		
1.	Primed with SP-120	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

