

NuSil R-2188

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: Potting and Encapsulating Materials

Comments: Low viscosity and Low Modulus Elastomer, High Power Electronics

General Information		
Features	Good Corrosion Resistance	
	Good Thermal Stability	
	Low Moisture Absorption	
	Low Shrinkage	
	Low Viscosity	
Uses	Electrical/Electronic Applications	
Processing Method	Encapsulating	
	Potting	
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	
Operating Temperature	-65 to 240	°C
Uncured Properties	Nominal Value	Unit
Color	Translucent	
Density	1.05	g/cm ³
Viscosity		
-- 1	9.0	Pa · s
-- 2	13	Pa · s
Curing Time (150°C)	0.17	hr

Pot Life	900	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	20	
Tensile Strength	3.28	MPa
Tensile Elongation at Break	680	%
Electric Strength	18	kV/mm
NOTE		
1.	Part B	
2.	Part A	

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

