

NuSil CV-2964

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: 1.03 W/m-K, No Boron Nitride

General Information			
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		
Tack Free Time	10.0	hr	
Cure System	Platinum		
Operating Temperature	-65 to 250	°C	
Uncured Properties	Nominal Value	Unit	
Color	White		
Density	2.42	g/cm³	
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	

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

