

# NuSil R-1600

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: Glob Tops

Comments: Low / High Temperature

General Information		
Features	Good Corrosion Resistance	
	Good Thermal Stability	
	Low Moisture Absorption	
	Low Shrinkage	
Uses	Electrical/Electronic Applications	
Thermoset	Nominal Value	Unit
Tack Free Time	30.0	min
Cure System	Oxime	
Operating Temperature	-115 to 260	°C
Uncured Properties	Nominal Value	Unit
Color	Clear/Transparent	
Density	1.10	g/cm <sup>3</sup>
Curing Time (23°C)	1.7E+2	hr
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	45	
Lap Shear Strength <sup>1</sup>	1.41	MPa
Tensile Strength	4.48	MPa
Tensile Elongation at Break	300	%
Tear Strength	10.5	kN/m
NOTE		
1.	Primed with SP-120	

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