

NuSil R32-2186

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: Adhesives and Sealants

Comments: Flowable, Fast Cure Adhesive, Longer Work Time

General Information		
Features	Fast Cure	
	Good Corrosion Resistance	
	Good Flow	
	Good Thermal Stability	
	Low Moisture Absorption	
	Low Shrinkage	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Sealants	
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	1.12	g/cm ³
Viscosity ¹	80	Pa · s
Curing Time (150°C)	0.25	hr
Pot Life	900	min


Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	15	
Lap Shear Strength ²	1.03	MPa
Tensile Strength	6.89	MPa
Tensile Elongation at Break	800	%
Tear Strength	21.9	kN/m
Electric Strength	36	kV/mm
NOTE		
1.	Part A	
2.	Primed with CF1-135	

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