NuSil EPM-2422

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: 1.43 Refractive Index

General Information	
Features	Good Corrosion Resistance
	Good Thermal Stability
	Low Moisture Absorption
	Low Shrinkage
Uses	Electrical/Electronic Applications
Processing Method	Encapsulating
	Potting

Thermal	Nominal Value	Unit	
CLTE - Flow	4.9E-4	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	22	kV/mm	ASTM D149
Optical	**Nominal Value**		
Refractive Index	1.430		
Thermoset	**Nominal Value**	**Unit**	
Thermoset Components			
Part A	Mix Ratio by Weight: 10		
Part B	Mix Ratio by Weight: 1.0		
Additional Information	**Nominal Value**	**Unit**	
Cure System	Platinum		
Ionic Content			
Cl	< 5	ppm	

K	< 1	ppm
Na	< 1	ppm
Operating Temperature	-115 to 260	°C
Uncured Properties	**Nominal Value**	**Unit**
Color	Clear/Transparent	
Density	1.04	g/cm³
Viscosity [1]	3.5	Pa·s
Curing Time (65°C)	4.0	hr
Cured Properties	**Nominal Value**	**Unit**
Shore Hardness (Shore A)	40	
Lap Shear Strength [2]	1.24	MPa
Tensile Strength	4.31	MPa
Tensile Elongation at Break	130	%
NOTE		
1.	Part A	
2.	Primed with CF1-135	

Recommended distributors for this material

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