

NuSil EPM-2461

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: Static Dissipative

Comments: Carbon black filled for EMI shielding applications

General Information		
Additive	Carbon Black	
Features	Electromagnetic Shielding (EMI)	
	Good Corrosion Resistance	
	Good Thermal Stability	
	Low Moisture Absorption	
	Low Shrinkage	
Uses	Electrical/Electronic Applications	
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	
Ionic Content		
Cl	< 5	ppm
K	< 1	ppm
Na	< 6	ppm
Operating Temperature	-115 to 260	°C
Uncured Properties	Nominal Value	Unit
Color	Black	
Viscosity		
-- 1	100	Pa · s
-- 2	1300	Pa · s

Curing Time (23°C)	24	hr
Pot Life	60	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	30	
Tensile Strength	3.79	MPa
Tensile Elongation at Break	400	%
Tear Strength	5.25	kN/m
NOTE		
1.	Part B	
2.	Part A	

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