

INSULCAST® RTVS 8127

Silicone Rubber, RTV-2
ITW Polymers Coatings North America

Message:

INSULCAST RTVS 8127 is a flame retardant, reversion resistant silicone compound. The low viscosity and high thermal conductivity makes the RTVS 8127 ideal for potting dense component packages requiring heat dissipation. This compound has excellent thermal stability, electrical properties, is compatible with most electrical insulating materials and has a UL 94 Flame Rating of 94 V-0.

General Information			
UL YellowCard	E86165-100140677		
Features	Flame Retardant		
	Good Electrical Properties		
	Good Thermal Stability		
	Low Viscosity		
	Thermally Conductive		
Processing Method	Potting		
Hardness	Nominal Value	Test Method	
Durometer Hardness (Shore A)	50 to 60	ASTM D2240	
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	2.90	MPa	ASTM D412
Tensile Elongation (Break)	120	%	ASTM D412
Thermal	Nominal Value	Unit	
CLTE - Flow	1.8E-4	cm/cm/°C	
Thermal Conductivity	0.75	W/m/K	
Service Temperature	-55 to 204	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	4.00		ASTM D150
Dissipation Factor (1 kHz)	5.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 1.0		
Part B	Mix Ratio by Weight: 1.0		
Shelf Life (25°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- 1	Colorless		

-- ²	Grey	
Density		
-- ³	1.78	g/cm ³
-- ⁴	1.78	g/cm ³
Viscosity		ASTM D2393
25°C ⁵	3.0	Pa·s
-- ⁶	4.0	Pa·s
25°C ⁷	5.0	Pa·s
Curing Time		
120°C	0.25	hr
95°C	0.50	hr
60°C	2.0	hr
25°C	24	hr
Pot Life ⁸ (25°C)	30 to 60	min
NOTE		
1.	Part B	
2.	Part A	
3.	Part B	
4.	Part A	
5.	Part B	
6.	Mixed	
7.	Part A	
8.	100 gram mass	

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