

INSULCAST® RTVS 27

Silicone Rubber, RTV-2

ITW Polymers Coatings North America

Message:

RTVS 27 is a low viscosity UL 94V-0 Flame Retardant, general purpose, reversion resistant RTV Silicone. With the ability to cure rapidly at elevated temperature, RTVS 27 combines the virtues of low temperature flexibility, excellent electrical properties, high temperature resistance and easy removal for component replacement or repair.

General Information			
UL YellowCard	E86165-251999		
Features	Flame Retardant		
	General Purpose		
	Good Electrical Properties		
	High Heat Resistance		
	Low Temperature Flexibility		
	Low Viscosity		
Uses	General Purpose		
Processing Method	Casting		
	Potting		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	60		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	3.45	MPa	ASTM D412
Tensile Elongation (Break)	140	%	ASTM D412
Tear Strength ¹	3.15	kN/m	ASTM D624
Thermal	Nominal Value	Unit	
CLTE - Flow	2.2E-4	cm/cm/°C	
Thermal Conductivity	0.31	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)	3.00		ASTM D150
Dissipation Factor (1 kHz)	4.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			

Mix Ratio by Volume: 1.0

Part A

Mix Ratio by Weight: 1.0

Mix Ratio by Volume: 1.0

Part B

Mix Ratio by Weight: 1.0

Shelf Life (25°C) 52 wk

Uncured Properties	Nominal Value	Unit	Test Method
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Color			
-- ²	Colorless		
-- ³	Grey		
Density			
-- ⁴	1.50	g/cm ³	
-- ⁵	1.50	g/cm ³	
Viscosity			ASTM D2393
-- ⁶	2.8	Pa·s	
-- ⁷	2.9	Pa·s	
-- ⁸	3.0	Pa·s	

Curing Time

120°C	0.25	hr
90°C	1.0	hr
60°C	4.0	hr
25°C	24	hr
Pot Life (25°C)	60 to 90	min

NOTE

1.	Die B
2.	Part B
3.	Part A
4.	Part B
5.	Part A
6.	Part B
7.	Mixed
8.	Part A

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