

INSULCAST® RTVS 27 LV

Silicone Rubber, RTV-2

ITW Polymers Coatings North America

Message:

RTVS 27 LV is a low viscosity, general purpose, reversion resistant RTV Silicone Compound. RTVS 27 LV finds use in commercial potting/casting application. RTVS 27 LV's one-to-one ratio by weight or volume makes it ideal for dispensing equipment or unskilled labor. With the ability to cure rapidly at elevated temperatures, RTVS 27 LV can be processed quickly in production situations.

General Information			
UL YellowCard	E86165-102014938		
Features	General Purpose		
	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)	100	%	ASTM D412
Tear Strength ¹	2.63	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	
Linear Shrinkage	0.20	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+14	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.40		ASTM D150
Dissipation Factor (1 kHz)	4.0E-3		ASTM D150
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)	26	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ²	Black		
-- ³	Colorless		
Density			
-- ⁴	1.47	g/cm ³	
-- ⁵	1.47	g/cm ³	
Viscosity			ASTM D2393
-- ⁶	1.2	Pa·s	
-- ⁷	1.2	Pa·s	
-- ⁸	1.2	Pa·s	
Curing Time			
95°C	0.25	hr	
60°C	1.0	hr	
25°C	24	hr	
Pot Life (25°C)	120	min	
NOTE			
1.	Die B		
2.	Part A		
3.	Part B		
4.	Part B		
5.	Part A		
6.	Mixed		
7.	Part B		
8.	Part A		

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