

INSULCAST® RTVS 27 HTC

Silicone Rubber, RTV-2
ITW Polymers Coatings North America

Message:
RTVS 27 HTC is a low viscosity, flame retardant, reversion resistant silicone compound. The low viscosity and high thermal conductivity makes the RTVS 27 HTC ideal for potting dense component packages requiring heat dissipation.

General Information			
UL YellowCard	E86165-251997		
Features	Flame Retardant		
	Low Viscosity		
	Thermally Conductive		
Processing Method	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)	60	%	ASTM D412
Thermal	Nominal Value	Unit	
CLTE - Flow	1.7E-4	cm/cm/°C	
Thermal Conductivity	1.0	W/m/K	
Service Temperature	-55 to 232	°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)	7.5E-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)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method

Color		
-- 1	Colorless	
-- 2	Grey	
Density		
-- 3	2.07	g/cm ³
-- 4	2.07	g/cm ³
Viscosity		ASTM D2393
-- 5	3.3	Pa·s
-- 6	6.0	Pa·s
-- 7	8.0	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 (25°C)	60	min
NOTE		
1.	Part B	
2.	Part A	
3.	Part B	
4.	Part A	
5.	Part B	
6.	Mixed	
7.	Part A	

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