

INSULCAST® RTVS 42 CURTIS II

Silicone Rubber, RTV-2

ITW Polymers Coatings North America

Message:

RTVS 42 CURTIS II is a low viscosity unique silicone-epoxy co-polymer formulated to withstand severe thermal shock, low moisture absorption and excellent dielectric insulation.

RTVS 42 CURTIS II contains silane adhesion promoters that enable it to bond well to most metals and plastics. Its unique chemistry combines the low temperature performance characteristics heretofore found only in silicones with the excellent encapsulating properties of epoxies.

General Information			
UL YellowCard	E86165-252005		
Features	Bondability		
	Copolymer		
	Good Thermal Shock Resistance		
	Low Moisture Absorption		
	Low Viscosity		
Processing Method	Casting		
	Potting		
Hardness	Nominal Value		Test Method
Durometer Hardness			ASTM D2240
Shore A, 25°C	75		
Shore D, 25°C	10 to 15		
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (25°C)	6.21	MPa	ASTM D412
Tensile Elongation (Break, 25°C)	180	%	ASTM D412
Tear Strength ¹ (25°C)	7.01	kN/m	ASTM D624
Thermal	Nominal Value	Unit	
Glass Transition Temperature	-60.0	°C	
CLTE - Flow	4.5E-5	cm/cm/°C	
Thermal Conductivity	0.58	W/m/K	
Service Temperature ²	-55 to 125	°C	
Linear Shrinkage (25°C)	0.20 to 0.50	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength (25°C)	20	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	4.00		ASTM D150
Dissipation Factor (1 kHz)	6.0E-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: 100		
Part A	Mix Ratio by Weight: 100		
	Mix Ratio by Volume: 7.0		
Part B	Mix Ratio by Weight: 4.8		
Shelf Life (25°C)	26	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ³	Amber		
-- ⁴	Black		
Density			
-- ⁵	1.02	g/cm ³	
-- ⁶	1.43	g/cm ³	
Viscosity			
-- ⁷	0.13	Pa·s	ASTM D2393
-- ⁸	16	Pa·s	
-- ⁹	18	Pa·s	ASTM D2393
Curing Time			
-- ¹⁰	10	hr	
25°C	24	hr	
Pot Life (25°C)	< 20	min	
NOTE			
1.	Die B		
2.	155°C intermittent use		
3.	Part B		
4.	Part A		
5.	Part B		
6.	Part A		
7.	Part B		
8.	Mixed		
9.	Part A		
10.	8 hours at 25°C plus 2 hours @ 65°C		

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