

INSULCAST® RTVS A-4000

Silicone Rubber, RTV-2

ITW Polymers Coatings North America

Message:

INSULCAST RTVS A-4000 is a two component solvent based silicone resin adhesive with excellent lap shear and peel strengths at elevated temperatures. RTVS A-4000 can be used to bond silicones, mylar, metals and many engineering plastics, and will maintain significant peel strength up to 300°F. It will retain flexibility over an elevated temperature range of -73° to 260 °C.

RTVS A-4000 is approved for use within the Army Missile Command, The Department of the Army and is available for use by all agencies of the Department of Defense under MIL-A-47317(MI). The overall balance of peel strength, cohesion, lap shear strength and high temperature holding power observed in RTVS A-4000 adhesive provides a versatility that makes this product useful in a wide variety of fastening and bonding applications.

General Information			
Features	Bondability		
Uses	Adhesives		
Agency Ratings	MIL A-47317		
Physical	Nominal Value	Unit	
Solids Content	55	%	
Service Temperature	-73 to 260		
Solvents	Toulene		
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	18	kV/mm	ASTM D149
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 3.3		
Shelf Life (25°C)	26	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ¹	Clear/Transparent		
-- ²	Yellow		
Density			
-- ³	0.948	g/cm³	
-- ⁴	0.988	g/cm³	
Flash Point	4.44	°C	
Viscosity			ASTM D2393
25°C ⁵	0.050	Pa · s	
-- ⁶	0.90 to 2.5	Pa · s	
25°C ⁷	1.0 to 5.0	Pa · s	
Curing Time			
200°C	8.0	hr	
25°C	24 to 96	hr	
Pot Life ⁸ (25°C)	24	min	

Cured Properties	Nominal Value	Unit	Test Method
Lap Shear Strength			ASTM D624
25°C ⁹	0.896	MPa	
25°C ¹⁰	0.827	MPa	
Peel Strength ¹¹	0.394	N/mm	

NOTE

- | | |
|-----|----------------------|
| 1. | Part B |
| 2. | Part A |
| 3. | Part B |
| 4. | Part A |
| 5. | Part B |
| 6. | Mixed |
| 7. | Part A |
| 8. | Refrigerated |
| 9. | mylar to mylar |
| 10. | silicone to aluminum |
| 11. | mylar to mylar |

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