

RTV-2 XT-507

Silicone Rubber, RTV-2

Silicones, Inc.

Message:

XT-507B is a thixotropic paste version of XT-500B, the RTV-2 silicone for ultra-low temperature potting, encapsulating and sealing applications. In this formulation, the crosslinker has been added to the Base to enable curing via the addition of a tin catalyst. XT-507 is excellent for cast-in-place heat shielding, thermal insulation, low and high temperature bonding and the potting and encapsulation of electrical assemblies that will be exposed to very low temperatures and where the rubber must remain in place or adhere to a vertical surface.

General Information		
Features	Bondability	
	High Temperature Strength	
	Low Temperature Strength	
	Thixotropic	
Uses	Electrical/Electronic Applications	
	Insulation Shield	
Forms	Paste	
Physical	Nominal Value	Unit
Specific Gravity	1.35	g/cm ³
Shrinkage - Cured	0.65	%
Coefficient of Linear Thermal Expansion - Cured	2.2E-4	cm/cm/°C
Service Temperature - Cured	-115 to 204	°C
Specific Heat Capacity - Cured	1460	J/kg/°C
Thermal Conductivity of Melt - Cured	0.31	W/m/K
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 0.50	
Part B	Mix Ratio by Weight: 100	
Shelf Life	26	wk
Uncured Properties	Nominal Value	Unit
Color ¹	White	
Viscosity ²	600 to 800	Pa · s
Curing Time		
-- ³	12 to 16	hr
-- ⁴	16 to 24	hr
Pot Life		
-- ⁵	60 to 120	min
-- ⁶	120 to 240	min

Cured Properties	Nominal Value	Unit
Shore Hardness		
Shore A ⁷	40	
Shore A ⁸	48	
Tensile Strength	2.93 to 3.28	MPa
Tensile Elongation at Break	130 to 180	%
Tear Strength	5.25 to 8.76	kN/m
Electric Strength	19	kV/mm
Relative Permittivity (100 Hz)	3.90	
Volume Resistivity	5.0E+14	ohms·cm
Dissipation Factor (100 Hz)	0.020	

NOTE

- | | |
|----|-----------|
| 1. | Base |
| 2. | Base |
| 3. | Activator |
| 4. | Base |
| 5. | Activator |
| 6. | Base |
| 7. | 1 Day |
| 8. | 3 Days |

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