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RTV - 710 WE

High Thermally Conductive Silicone

Description:

RTV-710 WE is an addition cure, flame retardant, RTV silicone rubber. It has high thermal conductivity, low shrinkage, and excellent heat resistance. RTV-710 WE is suited for commercial potting and encapsulation applications. It has good overall properties, can be cured rapidly at elevated temperatures, is odorless, and non-toxic. It contains no by-products, and is non-allergenic.

Properties:

Color	
Viscosity, CPS	
Specific Gravity	
Mix Ratio (by volume)	1:1
Mixed Viscosity, CPS	20,000
Pot Life @ 72° F, hrs.	45
Shelf Life @ 72° F, months	12
Hardness, Durometer Shore A	70
Tensile Strength, PSI	650
Tensile Elongation, %	70
Tear Strength, Die B lb/in.	28
Linear Shrinkage, %	0.1
Service Temperature Range, °C	-54 to 260
Coefficient of Expansion, ° C	17 x 10 ⁻⁵
Dielectric Strength, Volts/Mil	450
Dielectric Constant 100 HZ	3.4
Dissipation Factor 60 HZ	0.001
Volume Resistivity, ohm-cm	1 x 10 ¹⁴
Thermal Conductivity, BTU in/ft 2 hr ° F	10

Part-A

White
20,000
2.22

Part-B

White
25,000
2.25

Use Instructions:

Pre mix RTV-710 WE thoroughly. Weigh out the required amount of Part A and add the required amount of Part B. Mix thoroughly scraping both the bottom and sides of the mixing container. Evacuate under vacuum or let sit for 1 hour to facilitate air release if desired, and then apply.

Cure Schedule:

24 hours @ room temperature

2 hours @100°F

1 hour @ 150°F

Pot Life and cure is dependent on temperature.

Ideal conditions: 68-78°F (20-26°C)

40-60% relative humidity