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RTV – 813 Thermally Conductive Silicone

Description:

RTV-813 is a general purpose condensation cure RTV silicone rubber. RTV-813 has high heat and vibration resistance, as well as exceptional thermal conductivity. Major application areas include potting, high temperature molding, rollers, and print pads.

Properties:		Part-A	Part-B
Color		Red	Clear
Viscosity, CPS		25,000	100
Specific Gravity		1.45	.98
Mix Ratio (by weight)	100:10		
Mixed Viscosity, CPS	20,000		
Pot Life @ 72° F, min.	30-45		
Shelf Life @ 72° F, months	12		
Hardness, Durometer Shore A	60		
Tensile Strength, PSI	500		
Tensile Elongation, %	100		
Tear Strength, ppi	30		
Service Temperature Range, °C	-54 to 260		
Coefficient of Expansion, (cm/cm-°C)	21x10 ⁻⁵		
Dielectric Strength, Volts/Mil	500		
Dielectric Constant 100 HZ	3.6		
Dissipation Factor 60 HZ	0.002		
Volume Resistivity, ohm-cm	$1 \ge 10^{14}$		
Shrinkage, after 3days, %	.6		
Thermal Conductivity, BTU in/ft 2 hr ° F	2.5		

Use Instructions:

Pre-mix RTV-813 Base thoroughly. Weigh out the required amount and add the required amount of Catalyst. Mix thoroughly scraping both the bottom and sides of the mixing container. Evacuate the air and then apply.

Cure Schedule:

24 hours @ room temperature Pot Life and cure is dependent on temperature & humidity. Ideal conditions: 68-78°F (20-26°C) 40-60% relative humidity