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RTV-2 Silicones Since 1974

Product Information

XP-378 SILICONE RUBBER

DESCRIPTION

XP-378 RTV silicone rubber is a black two-component, addition reaction, platinum-catalyzed system that cures at room temperature. It has a low viscosity, is easy to process and its cure rate can be accelerated with heat. It has excellent electrical and thermal properties and is reversion resistant. In addition, it offers outstanding fire resistant properties.

APPLICATIONS

XP-378 is used in the potting and encapsulating of power supplies, amplifiers, relays, transformers, connectors, etc.. It can be used in any application where exceptional flame retardance is required.

MIXING INSTRUCTIONS

Mix 50 parts by weight of XP-378A with 50 parts by weight of XP-378B in a container that will hold approximately two times the volume being used. Stir thoroughly either by hand or by mechanical mixing. Immediately after mixing, place the material in a vacuum chamber capable of 28 to 29 inches of mercury vacuum. The material will expand and then collapse. Maintain vacuum for an additional two to three minutes and remove. Carefully pour the catalyzed silicone so as not to entrap air.

TYPICAL PROPERTIES

	XP-378A	XP-378B
Color	Black or Off white	Off-white
Viscosity, cps (\pm 500)	8,000	8,000
Specific Gravity	1.45	1.45
Working Time, hours	2 to 4	
Shore A Hardness		
24 Hours	63 \pm 3	
7 Days	63 \pm 3	
Tensile Strength, psi	500 \pm 50	
Elongation, %	150 \pm 25	
Tear Strength, ppi	30 \pm 5	
Service Temperature, °F	-60 to 425	
Dielectric Strength (volts/mil)	500	
Dielectric Constant @ 100 Hz	3.1	
Dissipation Factor @ 100 Hz	0.008	
Volume Resistivity (ohms/cm)	1 x 10 ¹⁵	
Thermal Conductivity (cal/cm ² /°C/sec/cm)	7 x 10 ⁻⁴	

The information contained in this product information sheet is based on sources believed to be accurate. It is offered in good faith, but without guarantee since the conditions of use are beyond our control. All risks of use are assumed by the user.