

Cytec CE-1171 (Conap) Acrylic Dielectric Conformal Coating

Category : Polymer , Adhesive , Thermoset , Acrylic/Cyanoacrylate Adhesive

Material Notes:

Dielectric Conformal Coatings for Electronics
Cytec dielectric conformal coatings are the most widely used conformal coatings in industry today for such divergent applications as aircraft avionics, instrumentation (industrial and military), missiles, spacecraft, fire and smoke detectors as well as coatings for electronic components, coils and transformers. And no small reason why -- all of the coatings described have been specifically formulated as dielectric insulating coatings to provide the user the ultimate protection available for his electronic assemblies; be it environmental (dirt, dust, humidity, fungus, temperature extremes, etc) or electrical insulation of conductors. These coatings are not designed for use as floor coatings or other general purpose uses; they have been produced under essentially "clean-room" conditions using raw materials with a minimum of ionizable impurities which would detract from their insulating qualities. Cytec (Conap) CE-1171 Acrylic Dielectric Conformal Coating
Single Component
Passes Thermal Shock Test (MIL-I-46058C)
Non-Nutrient Fungus Resistance (MIL-I-46058C)
Passes Flexibility Test (1/8" Mandrel Bend) (MIL-I-46058C)
Poor Chemical and Solvent Resistance
Solvent Evaporation
Cure Type: Solvent Evaporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cytec-CE-1171-Conap-Acrylic-Dielectric-Conformal-Coating.php

Physical Properties	Metric	English	Comments
Solids Content	30 %	30 %	
Viscosity	850 cP	850 cP	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	54.4 °C	130 °F	
Minimum Service Temperature, Air	-53.9 °C	-65.0 °F	
Flash Point	18.3 °C	65.0 °F	(TCC)

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	Insulation Resistance; Recovery, 24 hrs after 10-day Cycling (25°C, 50% Relative Humidity)
	1.50e+16 ohm-cm	1.50e+16 ohm-cm	Initial Insulation Resistance (50% Relative Humidity)
	2.50e+12 ohm-cm @Temperature 65.0 °C	2.50e+12 ohm-cm @Temperature 149 °F	Insulation Resistance During 10th day Cycling (95% Relative Humidity)
Dielectric Constant	3.15	3.15	ASTM D150
Dielectric Strength	118 kV/mm	3000 kV/in	ASTM D149

Electrical Properties	Metric	English	Comments
Dielectric Loss Factor	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Cure Time	20.0 min	0.333 hour	tack free
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	60.0 min	1.00 hour	
	@Temperature 60.0 °C	@Temperature 140 °F	
Shelf Life	1440 min	24.0 hour	Shelf Life Time at 25°C in original, unopened containers.
	@Temperature 25.0 °C	@Temperature 77.0 °F	

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