

Cytec Conathane® CE-1175 (Conap) Polyurethane Dielectric Conformal Coating

Category : Polymer , Adhesive , Thermoset , Polyurethane, TS , Thermoset Polyurethane, 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-1175 Conathane® Polyurethane 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) Good Chemical and Solvent Resistance Solvent Evaporation Cure Cure Type: Solvent Evaporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cytec-Conathane-CE-1175-Conap-Polyurethane-Dielectric-Conformal-Coating.php

Physical Properties	Metric	English	Comments
Solids Content	32 %	32 %	
Viscosity	1200 cP	1200 cP	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	51.7 °C	125 °F	
Minimum Service Temperature, Air	-53.9 °C	-65.0 °F	
Flash Point	>= 93.3 °C	>= 200 °F	(TCC)

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.20e+12 ohm-cm	3.20e+12 ohm-cm	Insulation Resistance; Recovery, 24 hrs after 10-day Cycling (25°C, 50% Relative Humidity)
	1.50e+14 ohm-cm	1.50e+14 ohm-cm	Initial Insulation Resistance (50% Relative Humidity)
	6.50e+10 ohm-cm @Temperature 65.0 °C	6.50e+10 ohm-cm @Temperature 149 °F	Insulation Resistance During 10th day Cycling (95% Relative Humidity)
Dielectric Strength	>= 39.4 kV/mm	>= 1000 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 120 min	1.00 - 2.00 hour	tack free
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	180 min	3.00 hour	
	@Temperature 60.0 °C	@Temperature 140 °F	
	240 min	4.00 hour	
	@Temperature 85.0 °C	@Temperature 185 °F	
	4320 - 7200 min	72.0 - 120 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Shelf Life	12.0 Month	12.0 Month	Shelf Life Time at 25°C in original, unopened containers.

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