

## Cytec Conathane® CE-1164 (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-1164 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) Very Good Chemical and Solvent Resistance Moisture Cure (must have a minimum of 30% relative humidity to fully cure) Cure Type: Moisture

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Cytec-Conathane-CE-1164-Conap-Polyurethane-Dielectric-Conformal-Coating.php](http://www.lookpolymers.com/polymer_Cytec-Conathane-CE-1164-Conap-Polyurethane-Dielectric-Conformal-Coating.php)

Physical Properties	Metric	English	Comments
Solids Content	50 %	50 %	
Viscosity	150 cP	150 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	12.8 °C	55.0 °F	(TCC)

Electrical Properties	Metric	English	Comments
Electrical Resistivity	4.50e+12 ohm-cm	4.50e+12 ohm-cm	Insulation Resistance; Recovery, 24 hrs after 10-day Cycling (25°C, 50% Relative Humidity)
	2.50e+13 ohm-cm	2.50e+13 ohm-cm	Initial Insulation Resistance (50% Relative Humidity)
	1.30e+10 ohm-cm @Temperature 65.0 °C	1.30e+10 ohm-cm @Temperature 149 °F	Insulation Resistance During 10th day Cycling (95% Relative Humidity)
Dielectric Constant	2.7	2.7	ASTM D150
Dielectric Strength	138 kV/mm	3500 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 - 30.0 min	0.333 - 0.500 hour	tack free
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	240 min	4.00 hour	
	@Temperature 60.0 °C	@Temperature 140 °F	
	10080 min	168.0 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.

## Contact Songhan Plastic Technology Co.,Ltd.

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