Cytec Conathane® CC-1155-35 (Conap) Polyurethane Two-component Dielectric Conformal Coating

Category : Polymer , Adhesive , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Adhesive

Material Notes:

Dielectric Conformal Coatings for ElectronicsCytec 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) CC-1155-35 Conathane® Polyurethane Two-component Dielectric Conformal CoatingTwo Component100/100 Mix Ratio (by Weight)Passes Thermal Shock Test (MIL-I-46058C)Non-Nutrient Fungus Resistance (MIL-I-46058C)Passes Flexibility Test (1/8" Mandrel Bend) (MIL-I-46058C)Excellent Chemical and Solvent ResistanceChemical Cure Cure Type: Chemical

Order this product through the following link:
http://www.lookpolymers.com/polymer_Cytec-Conathane-CC-1155-35-Conap-Polyurethane-Two-component-Dielectric-Conformal-Coating.php

Physical Properties	Metric	English	Comments
Solids Content	34 %	34 %	
Viscosity	35 cP @Temperature 25.0 °C	35 cP @Temperature 77.0 °F	Value represents initial mixed viscosity of components.

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	6.00e+12 ohm-cm	6.00e+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)
	6.10e+10 ohm-cm @Temperature 65.0 °C	6.10e+10 ohm-cm @Temperature 149 °F	Insulation Resistance During 10th day Cycling (95% Relative Humidity)
Dielectric Constant	3.42	3.42	ASTM D150

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.016 @Frequency 1e+6 Hz	0.016 @Frequency 1e+6 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Cure Time	180 min @Temperature 60.0 °C	3.00 hour @Temperature 140 °F	
	240 - 300 min @Temperature 25.0 °C	4.00 - 5.00 hour @Temperature 77.0 °F	tack free
	7200 min @Temperature 25.0 °C	120 hour @Temperature 77.0 °F	
Pot Life	480 - 600 min @Temperature 25.0 °C	480 - 600 min @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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