

Cytec EN-2551 (Conap) Potting and Encapsulation Adhesive

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

Material Notes:

Polyurethane Potting and Encapsulating Systems Conathane® EN-2500 series polyurethane potting and encapsulating systems from Cytec have varying degrees of worklife, viscosity and hardness for many specific potting and encapsulating applications such as modules, strain-sensitive components, transformers, and coils. All 2500 series systems exhibit excellent performance when exposed to adverse environments and temperature ranges between -55°C and +130°C. Cytec (Conap) EN-2551 Potting and Encapsulation Adhesive Passes Thermal Shock Test (10 Cycles, -65°C to 130°C) Non-Nutrient Fungus Resistance (MIL-STD-810B) Mix Ratio: 17/100 (by Weight)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cytec-EN-2551-Conap-Potting-and-Encapsulation-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	Cured
Water Absorption	0.060 %	0.060 %	24 hours
Water Absorption at Saturation	0.0015 %	0.0015 %	30 Days
Viscosity	4500 cP @Temperature 25.0 °C	4500 cP @Temperature 77.0 °F	
Linear Mold Shrinkage	0.0075 cm/cm	0.0075 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 - 60	55 - 60	
Tensile Strength, Ultimate	7.067 MPa	1025 psi	
Elongation at Break	39 %	39 %	

Thermal Properties	Metric	English	Comments
CTE, linear	118 µm/m-°C @Temperature 20.0 °C	65.6 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	0.649 W/m-K	4.49 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	130 °C	266 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 6.80e+13 ohm-cm	<= 6.80e+13 ohm-cm	

Surface Resistance Electrical Properties	2.80e+17 ohm Metric	2.80e+17 ohm English	Comments
Dielectric Constant	3.99 @Frequency 1000 Hz	3.99 @Frequency 1000 Hz	
Dielectric Strength	23.0 kV/mm @Thickness 1.59 mm	585 kV/in @Thickness 0.0625 in	
Dissipation Factor	0.053 @Frequency 1000 Hz	0.053 @Frequency 1000 Hz	
Arc Resistance	>= 120 sec	>= 120 sec	

Processing Properties	Metric	English	Comments
Cure Time	120 min @Temperature 100 °C	2.00 hour @Temperature 212 °F	
	960 min @Temperature 80.0 °C	16.0 hour @Temperature 176 °F	
	10080 min @Temperature 25.0 °C	168.0 hour @Temperature 77.0 °F	
Pot Life	4.00 - 7.00 min @Temperature 25.0 °C	4.00 - 7.00 min @Temperature 77.0 °F	1 lbm

Descriptive Properties	Value	Comments
Color	Blue	

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