

Cytec EN-2543 (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 Cytek 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-2543 Potting and Encapsulation Adhesive Specifically formulated to impart a flame resistance that will meet U.L. 94 V-0 rating in 1/8" test sample. Passes Thermal Shock Test (10 Cycles, -65°C to 130°C) Non-Nutrient Fungus Resistance (MIL-STD-810B) Mix Ratio: 15/100 (by Weight)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cytec-EN-2543-Conap-Potting-and-Encapsulation-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	Cured
Water Absorption	0.11 %	0.11 %	24 hours
Water Absorption at Saturation	0.0042 %	0.0042 %	30 Days
Viscosity	4750 cP @Temperature 25.0 °C	4750 cP @Temperature 77.0 °F	
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45 - 55	45 - 55	
Tensile Strength, Ultimate	8.62 MPa	1250 psi	
Elongation at Break	50 %	50 %	

Thermal Properties	Metric	English	Comments
CTE, linear	140 µm/m-°C @Temperature 20.0 °C	77.8 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	0.305 W/m-K	2.12 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	130 °C	266 °F	
Minimum Service Temperature, Air	-65.0 °C	-85.0 °F	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	$\leq 1.70e+14$ ohm-cm Metric	$\leq 1.70e+14$ ohm-cm English	Comments
Surface Resistance	8.90e+14 ohm	8.90e+14 ohm	
Dielectric Constant	4.5 @Frequency 1000 Hz	4.5 @Frequency 1000 Hz	
Dielectric Strength	25.6 kV/mm @Thickness 1.59 mm	650 kV/in @Thickness 0.0625 in	
Dissipation Factor	0.075 @Frequency 1000 Hz	0.075 @Frequency 1000 Hz	
Arc Resistance	≥ 120 sec	≥ 120 sec	

Processing Properties	Metric	English	Comments
Cure Time	240 min @Temperature 100 °C	4.00 hour @Temperature 212 °F	
	360 min @Temperature 60.0 °C	6.00 hour @Temperature 140 °F	
	10080 min @Temperature 25.0 °C	168.0 hour @Temperature 77.0 °F	
Pot Life	30.0 - 35.0 min @Temperature 25.0 °C	30.0 - 35.0 min @Temperature 77.0 °F	1 lbm

Descriptive Properties	Value	Comments
Color	Tan or Black	

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