

Cytec EN-2541 (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-2541 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: 16/100 (by Weight)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cytec-EN-2541-Conap-Potting-and-Encapsulation-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	Cured
Water Absorption	0.19 %	0.19 %	24 hours
Water Absorption at Saturation	0.0048 %	0.0048 %	30 Days
Viscosity	6000 cP @Temperature 25.0 °C	6000 cP @Temperature 77.0 °F	
Linear Mold Shrinkage	0.0065 cm/cm	0.0065 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65 - 70	65 - 70	
Tensile Strength, Ultimate	11.0 MPa	1600 psi	
Elongation at Break	35 - 40 %	35 - 40 %	

Thermal Properties	Metric	English	Comments
CTE, linear	151 µm/m-°C @Temperature 20.0 °C	83.9 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	0.293 W/m-K	2.03 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	$\leq 1.00\text{e}+14$ ohm-cm Metric	$\leq 1.00\text{e}+14$ ohm-cm English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	4.3	4.3	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	
	@Thickness 1.59 mm	@Thickness 0.0625 in	
Dissipation Factor	0.020	0.020	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	≥ 120 sec	≥ 120 sec	

Processing Properties	Metric	English	Comments
Cure Time	240 min	4.00 hour	
	@Temperature 100 °C	@Temperature 212 °F	
	360 min	6.00 hour	
	@Temperature 60.0 °C	@Temperature 140 °F	
	10080 min	168.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	45.0 - 50.0 min	45.0 - 50.0 min	1 lbm
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Tan or Black	

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