

Cytec EN-2521 (Conap) Potting and Encapsulation Adhesive

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

Material Notes:

Polyurethane Potting and Encapsulating SystemsConathane® 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-2521 Potting and Encapsulation AdhesiveU.L. recognized potting compounds. These systems are excellent choices where a device must eventually obtain U.L. approval. These systems have a U.L. Electrical Temperature Index Rating of 120°C. Refer to U.L. Index No. E69804.Passes Thermal Shock Test (10 Cycles, -65°C to 130°C)Non-Nutrient Fungus Resistance (MIL-STD-810B)Mix Ratio: 20/100 (by Weight)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cytec-EN-2521-Conap-Potting-and-Encapsulation-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in ³	Cured
Water Absorption	0.19 %	0.19 %	24 hours
Water Absorption at Saturation	0.0055 %	0.0055 %	30 Days
Viscosity	4000 cP @Temperature 25.0 °C	4000 cP @Temperature 77.0 °F	
Linear Mold Shrinkage	0.0071 cm/cm	0.0071 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65 - 72	65 - 72	
Tensile Strength, Ultimate	11.0 MPa	1600 psi	
Elongation at Break	40 %	40 %	

Thermal Properties	Metric	English	Comments
CTE, linear	160 µm/m-°C @Temperature 20.0 °C	88.9 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	0.272 W/m-K	1.88 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	<= 1.20e+14 ohm-cm	<= 1.20e+14 ohm-cm	
Surface Resistance	4.60e+13 ohm	4.60e+13 ohm	
Dielectric Constant	4.3	4.3	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	25.6 kV/mm	650 kV/in	
	@Thickness 1.59 mm	@Thickness 0.0625 in	
Dissipation Factor	0.045	0.045	
	@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	60.0 - 80.0 min	60.0 - 80.0 min	1 lbm
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Tan or Black	

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