

Cytec EN-2550 (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-2550 Potting and Encapsulation AdhesiveSpecifically formulated to impart a flame resistance that will meet U.L. 94 V-O 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: 17/100 (by Weight)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cytec-EN-2550-Conap-Potting-and-Encapsulation-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in³	Cured
Water Absorption	0.075 %	0.075 %	24 hours
Water Absorption at Saturation	0.00187 %	0.00187 %	30 Days
Viscosity	3000 cP @Temperature 25.0 °C	3000 cP @Temperature 77.0 °F	
Linear Mold Shrinkage	0.0058 cm/cm	0.0058 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	
Tensile Strength, Ultimate	26.2 MPa	3800 psi	
Elongation at Break	32 %	32 %	

Thermal Properties	Metric	English	Comments
CTE, linear	165 µm/m-°C @Temperature 20.0 °C	91.7 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	0.335 W/m-K	2.32 BTU-in/hr-ft²-°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	$\leq 2.10\text{e}+14$ ohm-cm Metric	$\leq 2.10\text{e}+14$ ohm-cm English	Comments
Surface Resistance	6.10e+17 ohm	6.10e+17 ohm	
Dielectric Constant	4.13 @Frequency 1000 Hz	4.13 @Frequency 1000 Hz	
Dielectric Strength	20.9 kV/mm @Thickness 1.59 mm	530 kV/in @Thickness 0.0625 in	
Dissipation Factor	0.034 @Frequency 1000 Hz	0.034 @Frequency 1000 Hz	
Arc Resistance	≥ 120 sec	≥ 120 sec	

Processing Properties	Metric	English	Comments
Cure Time	240 - 360 min @Temperature 100 °C	4.00 - 6.00 hour @Temperature 212 °F	
	720 - 960 min @Temperature 60.0 °C	12.0 - 16.0 hour @Temperature 140 °F	
	10080 - 14400 min @Temperature 25.0 °C	168.0 - 240 hour @Temperature 77.0 °F	
Pot Life	35.0 - 40.0 min @Temperature 25.0 °C	35.0 - 40.0 min @Temperature 77.0 °F	1 lbm

Descriptive Properties	Value	Comments
Color	Black	

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