

Cytec EN-2523 (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-2523 Potting and Encapsulation Adhesive 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-2523-Conap-Potting-and-Encapsulation-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	Cured
Water Absorption	0.14 %	0.14 %	24 hours
Water Absorption at Saturation	0.0045 %	0.0045 %	30 Days
Viscosity	2800 cP @Temperature 25.0 °C	2800 cP @Temperature 77.0 °F	
Linear Mold Shrinkage	0.0059 cm/cm	0.0059 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50 - 55	50 - 55	
Tensile Strength, Ultimate	11.0 MPa	1600 psi	
Elongation at Break	50 %	50 %	

Thermal Properties	Metric	English	Comments
CTE, linear	150 µm/m-°C @Temperature 20.0 °C	83.3 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	0.188 W/m-K	1.30 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	<= 3.40e+13 ohm-cm	<= 3.40e+13 ohm-cm	

Surface Resistance Electrical Properties	1.50e+13 ohm Metric	1.50e+13 ohm English	Comments
Dielectric Constant	4.1 @Frequency 1000 Hz	4.1 @Frequency 1000 Hz	
Dielectric Strength	24.8 kV/mm @Thickness 1.59 mm	630 kV/in @Thickness 0.0625 in	
Dissipation Factor	0.049 @Frequency 1000 Hz	0.049 @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	45.0 - 50.0 min @Temperature 25.0 °C	45.0 - 50.0 min @Temperature 77.0 °F	1 lbm

Descriptive Properties	Value	Comments
Color	Tan or Black	

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