

Cytec EN-2555 (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-2555 Potting and Encapsulation Adhesive Passes Thermal Shock Test (10 Cycles, -65°C to 130°C) Non-Nutrient Fungus Resistance (MIL-STD-810B) Mix Ratio: 24/100 (by Weight)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cytec-EN-2555-Conap-Potting-and-Encapsulation-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	Cured
Water Absorption	0.40 %	0.40 %	24 hours
Water Absorption at Saturation	0.012 %	0.012 %	30 Days
Viscosity	600 cP @Temperature 50.0 °C	600 cP @Temperature 122 °F	
Linear Mold Shrinkage	>= 0.0060 cm/cm	>= 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	
Tensile Strength, Ultimate	13.8 MPa	2000 psi	
Elongation at Break	45 %	45 %	

Thermal Properties	Metric	English	Comments
CTE, linear	114 µm/m-°C @Temperature 20.0 °C	63.3 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	0.154 W/m-K	1.06 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	<= 7.70e+13 ohm-cm	<= 7.70e+13 ohm-cm	

Surface Resistance Electrical Properties	7.20e+14 ohm Metric	7.20e+14 ohm English	Comments
Dielectric Constant	4.85	4.85	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	18.5 kV/mm	471 kV/in	
	@Thickness 1.59 mm	@Thickness 0.0625 in	
Dissipation Factor	0.035	0.035	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	>= 190 sec	>= 190 sec	

Processing Properties	Metric	English	Comments
Cure Time	1440 min	24.0 hour	Full Cure in 24 hrs at 100°C
	@Temperature 100 °C	@Temperature 212 °F	
Pot Life	40.0 - 50.0 min	40.0 - 50.0 min	1 lbm
	@Temperature 50.0 °C	@Temperature 122 °F	

Descriptive Properties	Value	Comments
Color	Black	

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