

Cytec EN-12 (Conap) Casting, Potting, and Molding Compound

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

Material Notes:

High Technology Potting, Casting and Molding Compounds Two-component, polybutadiene-based liquid urethane casting and potting systems. When reacted these high technology systems produce tough, stable elastomers; superior in most respects to silicone elastomers. These Conathane® elastomers have outstanding hydrolytic stability, outstanding electrical properties over a wide temperature range, excellent thermal shock resistance, low temperature elasticity, low exotherm and minimal shrinkage. The properties stated make the Conathane® EN-7 series ideal for such applications as cable molding, cable connectors, underwater protection, strain-sensitive potting, high voltage potting, cryogenic potting or embedment, vibration dampers, sealant bushings, or any area where dependability is of critical importance. Another unique characteristic and subsequent application for this series is their acoustical similarity to water and use as a transducer potting material. This demanding application requires the hydrolytic stability, acoustic properties, and dielectric properties which EN-7 through EN-14 exhibit. These systems are supplied in their natural color. Some are also available in black. For those customers desiring other colors, Cytec also has available four standard color dispersions. Cytec (Conap) EN-12 Casting, Potting, and Molding Compound Passes Thermal Shock Test (10 Cycles, 70 - 130°C) Non-Nutrient Fungus Resistance Product characteristics are typical data and not meant to serve as specifications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cytec-EN-12-Conap-Casting-Potting-and-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	0.990 g/cc	0.0358 lb/in ³	
Water Absorption	0.20 %	0.20 %	24 hours
Water Absorption at Saturation	0.0031 %	0.0031 %	30 Days
Viscosity	6500 cP @Temperature 25.0 °C	6500 cP @Temperature 77.0 °F	
Linear Mold Shrinkage	0.0125 cm/cm	0.0125 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	Tolerance of +/- 5
Tensile Strength, Ultimate	2.07 MPa	300 psi	
Elongation at Break	250 %	250 %	
Tear Strength	15.8 kN/m	90.0 pli	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 4.30e+15 ohm-cm	<= 4.30e+15 ohm-cm	

Insulation Resistance Electrical Properties	$\geq 2.50 \times 10^{13}$ ohm Metric	$\geq 2.50 \times 10^{13}$ ohm English	Comments
Dielectric Constant	2.9	2.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	3.4	3.4	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	23.6 kV/mm	600 kV/in	
	@Thickness 1.59 mm, Temperature 25.0 °C	@Thickness 0.0625 in, Temperature 77.0 °F	
Dissipation Factor	0.010	0.010	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.026	0.026	
	@Frequency 100 Hz	@Frequency 100 Hz	
Arc Resistance	≥ 120 sec	≥ 120 sec	Value at 25°C

Processing Properties	Metric	English	Comments
Cure Time	960 min	16.0 hour	
	@Temperature 80.0 °C	@Temperature 176 °F	
Pot Life	10080 - 14400 min	168.0 - 240 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	40.0 min	40.0 min	0.5 lbm
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Opaque Amber	

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