

CONATHANE EN-16

Polyurethane
Cytec Industries Inc.

Message:

CONATHANE EN-16 is a two-component, unfilled urethane system formulated to meet the requirements of MIL-M-24041C: PRO 20 Amendment. It is a polyether based, non-MBOCA polyurethane resin system primarily intended for use as a molding, encapsulating, and potting compound for harness breakouts, watertight electrical connectors, cables, cable end seals, printed circuitry, and other electrical components. The system also has use in the casting or molding of mechanical parts and as a lining material for pumps, chutes, and conveyors where outstanding abrasion resistance is required. CONATHANE EN-16 may be cured at room or elevated temperatures. CONATHANE EN-16, when fully cured, is a tough , cold-flow resistant elastomer that has good resistance to oils, gasoline, JP-4 fuel, water, and sea water, and also provides outstanding protection against corrosion or contamination. The system is funginert when tested in accordance with MIL-I-46058C and ASTM G-21 and meets or exceeds all of the requirements of MIL-M-24041C: PRO 20 Amendment.

Three primers have been developed for use in bonding EN-16 to metals, neoprene, and polyvinyl chloride during the curing process. CONAP® AD-1146 is recommended for metals, CONAP® PR-1167 for neoprene, and CONAP® AD-1161 for polyvinyl chloride.

General Information		
Features	Fuel Resistant	
	Gasoline Resistance	
	Good Abrasion Resistance	
	Good Corrosion Resistance	
	Good Electrical Properties	
	Oil Resistant	
Uses	Connectors	
	Electrical Parts	
	Electrical/Electronic Applications	
	Printed Circuit Boards	
	Pump Parts	
Appearance	Amber	
Processing Method	Encapsulating	
	Potting	
Physical	Nominal Value	Unit
Specific Gravity ¹	1.06	g/cm ³
Water Absorption (24 hr)	2.6	%
Elastomers	Nominal Value	Unit
Tensile Stress		
100% Strain	4.92	MPa
300% Strain	8.96	MPa
Tensile Strength	29.1	MPa
Tensile Elongation (Break)	510	%
Tear Strength	73.2	kN/m

Compression Set	44	%
Electrical	Nominal Value	Unit
Surface Resistivity	1.7E+14	ohms
Volume Resistivity (25°C)	1.4E+12	ohms·cm
Dielectric Strength (1.59 mm)	19	kV/mm
Dielectric Constant (25°C, 1 kHz)	6.38	
Dissipation Factor (25°C, 1 kHz)	0.032	
Insulation Resistance (25°C)	1.5E+11	ohms
Thermoset	Nominal Value	Unit
Thermoset Components		
Hardener	Mix Ratio by Weight: 25	
Resin	Mix Ratio by Weight: 100	
Thermoset Mix Viscosity (25°C)	4000	cP
NOTE		
1.	Hardener	

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