

# CONATHANE® EN-2534

Polyurethane  
Cytec Industries Inc.

Message:

CONATHANE EN-2534 Black is a two-part, non-mercury, fast setting, filled, flexible polyurethane potting system that consists of two low viscosity liquids that have low vapor pressure and good handling properties at room temperature. CONATHANE EN-2534 Black can be cured at room or elevated temperatures without the formation of voids. Low exotherm, low stress build- up during cure, low shrinkage, and excellent electrical properties are other outstanding features of this system.

CONATHANE EN-2534 Black is particularly recommended for potting electrical and electronic devices that are subjected to conditions of extreme thermal shock and must also withstand exposure to adverse environments. Even though filled, the low viscosity of this system permits thorough impregnation of electrical and electronic components.

General Information	
UL YellowCard	E69804-249049
Features	Good Electrical Properties
	Good Flexibility
	Good Processability
	Good Thermal Shock Resistance
	Low Exotherm
	Low Shrinkage
	Low Viscosity
Uses	Electrical Parts
	Electrical/Electronic Applications
Appearance	Black
Forms	Liquid
Processing Method	Encapsulating
	Potting

Physical	Nominal Value	Unit
Specific Gravity		
-- 1	1.24	g/cm <sup>3</sup>
-- 2	1.44	g/cm <sup>3</sup>
Hardness	Nominal Value	Unit
Durometer Hardness (Shore D)	50	
Mechanical	Nominal Value	Unit
Tensile Strength	13.6	MPa
Tensile Elongation (Break)	60	%
Elastomers	Nominal Value	Unit
Tear Strength	21.9	kN/m
Electrical	Nominal Value	Unit

Surface Resistivity		
-- 3	5.3E+12	ohms
-- 4	3.1E+13	ohms
-- 5	5.3E+14	ohms
Volume Resistivity		
25°C	6.1E+13	ohms · cm
60°C	9.2E+11	ohms · cm
90°C	1.1E+11	ohms · cm
Dielectric Strength	23	kV/mm
Dielectric Constant		
25°C, 100 Hz	4.39	
25°C, 1 kHz	3.73	
25°C, 1 MHz	3.30	
60°C, 100 Hz	6.14	
60°C, 1 kHz	5.57	
60°C, 1 MHz	3.46	
Dissipation Factor		
25°C, 100 Hz	0.19	
25°C, 1 kHz	0.073	
25°C, 1 MHz	0.026	
60°C, 100 Hz	0.083	
60°C, 1 kHz	0.092	
60°C, 1 MHz	0.062	
Arc Resistance	> 120	sec
Thermoset	Nominal Value	Unit
Thermoset Components		
Hardener	Mix Ratio by Weight: 100	
Resin	Mix Ratio by Weight: 20	
Thermoset Mix Viscosity		
25°C <sup>6</sup>	2200	cP
25°C <sup>7</sup>	6000	cP
25°C <sup>8</sup>	200	cP
NOTE		
1.	Resin	
2.	Hardener	
3.	90°C	
4.	60°C	
5.	25°C	
6.	Mix	
7.	Hardener	
8.	Resin	

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