

CONAPOXY® FR-1830

Epoxy; Epoxide
Cytec Industries Inc.

Message:

CONAPOXY FR-1830 is a ambient cure, two-component, low viscosity, flame retardant epoxy potting, casting, and coating system with excellent handling properties. CONAPOXY FR-1830 contains a non-abrasive filler to reduce wear on machine metering/dispensing equipment. CONAPOXY FR-1830 is recognized to UL 94V-0 and is RoHS compliant. Products produced using CONAPOXY FR-1830 can be shipped into the European Union, however shipment into the EU of uncured part A and part B is restricted.

General Information			
Features	Filled		
	Flame Retardant		
	Low Viscosity		
RoHS Compliance	RoHS Compliant		
Appearance	Amber		
	Black		
Processing Method	Casting		
	Coating		
	Potting		
Physical	Nominal Value	Unit	
Specific Gravity			
-- 1	0.965	g/cm ³	
-- 2	1.59	g/cm ³	
Water Absorption (24 hr)	0.34	%	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore D)	80 to 85		
Mechanical	Nominal Value	Unit	
Tensile Strength	35.9	MPa	
Thermal	Nominal Value	Unit	
Thermal Conductivity	0.49	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+15	ohms	
Volume Resistivity (25°C)	6.9E+14	ohms · cm	
Dielectric Strength	20	kV/mm	
Dielectric Constant (25°C, 1 kHz)	4.14		
Dissipation Factor (25°C, 1 kHz)	0.017		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (4.80 mm)	V-0		UL 94

Thermoset	Nominal Value	Unit
Thermoset Components		
Hardener	Mix Ratio by Weight: 20	
Resin	Mix Ratio by Weight: 100	
Thermoset Mix Viscosity (25°C)	2190	cP
Cured Properties	Nominal Value	Unit
Linear Shrinkage	0.067	%
NOTE		
1.	Hardener	
2.	Resin	

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