

# CONAPOXY® FR-1820

Epoxy; Epoxide  
Cyttec Industries Inc.

Message:

CONAPOXY FR-1820 is a two-component, flame retardant, short pot life epoxy potting and casting system with excellent handling properties. CONAPOXY FR-1820 contains a non-abrasive filler to reduce wear on machine metering/dispensing equipment. CONAPOXY FR-1820 has been tested by Underwriters Laboratories to be RoHS compliant and recognized to UL 94V-0.

General Information			
Features	Filled		
	Flame Retardant		
RoHS Compliance	RoHS Compliant		
Appearance	Amber		
	Black		
Processing Method	Casting		
	Potting		
Physical	Nominal Value	Unit	
Specific Gravity			
-- 1	0.984	g/cm³	
-- 2	1.65	g/cm³	
Water Absorption (24 hr)	0.26	%	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore D)	80 to 85		
Mechanical	Nominal Value	Unit	
Tensile Strength	33.6	MPa	
Tensile Elongation (Break)	3.0	%	
Thermal	Nominal Value	Unit	
Thermal Conductivity	0.50	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.2E+15	ohms	
Volume Resistivity (25°C)	4.6E+14	ohms·cm	
Dielectric Strength	19	kV/mm	
Dielectric Constant (25°C, 1 kHz)	4.18		
Dissipation Factor (25°C, 1 kHz)	0.024		
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: 25	
Resin	Mix Ratio by Weight: 100	
Thermoset Mix Viscosity (25°C)	6900	cP
Cured Properties	Nominal Value	Unit
Linear Shrinkage	0.010	%
NOTE		
1.	Hardener	
2.	Resin	

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#### Recommended distributors for this material

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