

CONAPOXY® FR-1810

Epoxy; Epoxide

Cytec Industries Inc.

Message:

CONAPOXY FR-1810 is a flexible two-component, low exotherm, flame retardant, long pot life epoxy potting and casting system with excellent handling properties. CONAPOXY FR-1810 contains a non-abrasive filler to reduce wear on machine metering/dispensing equipment. CONAPOXY FR-1810 has been tested by Underwriters Laboratories to be RoHS compliant and recognized to UL 94V-0.

General Information			
Features	Filled		
	Flame Retardant		
	Good Flexibility		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Tan		
Processing Method	Casting		
	Potting		
Physical	Nominal Value	Unit	
Specific Gravity			
-- ¹	1.54	g/cm ³	
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Water Absorption (24 hr)	0.41	%	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore D)	80 to 85		
Mechanical	Nominal Value	Unit	
Tensile Strength	9.14	MPa	
Tensile Elongation (Break)	22	%	
Thermal	Nominal Value	Unit	
Thermal Conductivity	0.70	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	4.7E+15	ohms	
Volume Resistivity (25°C)	7.1E+13	ohms · cm	
Dielectric Strength	21	kV/mm	
Dielectric Constant (25°C, 1 kHz)	4.39		
Dissipation Factor (25°C, 1 kHz)	0.037		
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: 100	
Resin	Mix Ratio by Weight: 100	
Thermoset Mix Viscosity (25°C)	8000	cP
Cured Properties	Nominal Value	Unit
Linear Shrinkage	0.060	%
NOTE		
1.	Hardener	
2.	Resin	

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