

CONAPOXY® FR-1274

Epoxy; Epoxide
Cyttec Industries Inc.

Message:

CONAPOXY FR-1274 is a two-component, low exotherm, flame retardant, long pot life epoxy potting and casting system. Because of its excellent thermal shock resistance, CONAPOXY FR-1274 is recommended for the encapsulation of strain sensitive devices. CONAPOXY FR-1274 is also an excellent system for potting and encapsulating electrical/electronic devices such as modules, transformers, and coils.

Low cost, low exotherm, low shrinkage
Flame retardant
Good thermal conductivity
Convenient 1-to-1 mix ratio by volume or weight
Non-abrasive filler for machine metering and dispensing
Long pot life and room or elevated temperature cure
Excellent thermal shock resistance

General Information		
UL YellowCard	E69804-249033	
Features	Flame Retardant	
	Good Thermal Shock Resistance	
	Low Exotherm	
	Thermally Conductive	
Uses	Electrical Parts	
	Electrical/Electronic Applications	
Appearance	Black	
	Brown	
Forms	Liquid	
Processing Method	Casting	
	Potting	
Physical	Nominal Value	Unit
Specific Gravity		
-- ¹	1.60	g/cm ³
--	1.66	g/cm ³
Hardness	Nominal Value	Unit
Durometer Hardness (Shore D)	80	
Mechanical	Nominal Value	Unit
Tensile Strength	37.9	MPa
Compressive Strength	71.7	MPa
Thermal	Nominal Value	Unit
Glass Transition Temperature	45.0 to 55.0	°C

CLTE - Flow	4.0E-5	cm/cm/°C	
Thermal Conductivity	0.84	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+17	ohms	
Volume Resistivity	8.0E+14	ohms·cm	
Dielectric Strength	16	kV/mm	
Dielectric Constant			
25°C, 100 Hz	4.42		
25°C, 1 kHz	4.25		
25°C, 1 MHz	3.91		
Dissipation Factor			
25°C, 100 Hz	0.076		
25°C, 1 kHz	0.022		
25°C, 1 MHz	0.014		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-0		UL 94
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Weight: 100		
Pot Life (25°C)	150	min	
Shelf Life	52	wk	
Thermoset Mix Viscosity			
25°C ²	40000	cP	
25°C ³	55000	cP	
25°C ⁴	27000	cP	
Demold Time			
25°C	1400 to 2900	min	
60°C	180 to 300	min	
80°C	60 to 120	min	
Additional Information	Nominal Value	Unit	
Peak Exotherm - 200 gram mass	43	°C	
Linear Shrinkage	0.10	%	
NOTE			
1.	Mix		
2.	Mix		
3.	Hardener		
4.	Resin		

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