

CONAPOXY® FR-1272

Epoxy; Epoxide

Cytec Industries Inc.

Message:

CONAPOXY FR-1272 is a two-component, low exotherm, long pot life epoxy potting and casting system with excellent handling properties. CONAPOXY FR-1272 is an excellent system for potting and encapsulating of electrical/electronic devices such as modules, transformers, and coils.

Low cost, low exotherm, low shrinkage

Long pot life at room or elevated temperature cure

Excellent thermal shock resistance

Excellent Thermal conductivity

General Information	
UL YellowCard	E69804-249032
Features	Good Thermal Shock Resistance
	Low Exotherm
	Low Shrinkage
	Thermally Conductive
Uses	Electrical Parts
	Electrical/Electronic Applications
Appearance	Amber
	Blue
Forms	Liquid
Processing Method	Casting
	Potting

Physical	Nominal Value	Unit
Specific Gravity		
-- ¹	1.01	g/cm ³
-- ²	2.01	g/cm ³
-- ³	2.15	g/cm ³
--	2.02	g/cm ³
Hardness	Nominal Value	Unit
Durometer Hardness (Shore D)	88	
Mechanical	Nominal Value	Unit
Tensile Strength	13.1	MPa
Compressive Strength	82.7	MPa
Thermal	Nominal Value	Unit
Glass Transition Temperature	40.0	°C
CLTE - Flow	4.0E-5	cm/cm/°C

Thermal Conductivity	0.50 to 0.59	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+15	ohms	
Volume Resistivity	6.0E+14	ohms·cm	
Dielectric Strength	17	kV/mm	
Dielectric Constant			
25°C, 100 Hz	4.90		
25°C, 1 kHz	4.80		
25°C, 1 MHz	4.54		
Dissipation Factor			
25°C, 100 Hz	0.015		
25°C, 1 kHz	0.014		
25°C, 1 MHz	0.011		
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 7.0		
Resin	Mix Ratio by Weight: 100		
Pot Life (25°C)	150	min	
Shelf Life	78	wk	
Thermoset Mix Viscosity			
25°C ⁴	10000	cP	
25°C ⁵	40.0	cP	
25°C ⁶	190000	cP	
Demold Time			
25°C	1400	min	
60°C	180 to 300	min	
80°C	120 to 180	min	
Additional Information	Nominal Value	Unit	
Peak Exotherm - 200 grams	33	°C	
Linear Shrinkage	0.010	%	
NOTE			
1.	Hardener		
2.	Mix		
3.	Resin		
4.	Mix		
5.	Hardener		
6.	Resin		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT