

CONAP® AD-7409

Epoxy; Epoxide

Cytec Industries Inc.

Message:

CONAP AD-7409 is an undiluted epoxy potting and casting resin. This system possesses low viscosity, low shrinkage, low exotherm, excellent resistance to thermal shock, good electrical properties, and hardnesses of 85 Shore D.

General Information		
Features	Good Electrical Properties	
	Good Thermal Shock Resistance	
	Low Exotherm	
	Low Shrinkage	
	Low Viscosity	
Appearance	Amber	
Processing Method	Casting	
	Potting	
Physical	Nominal Value	Unit
Specific Gravity		
-- ¹	0.960	g/cm ³
-- ²	1.15 to 1.17	g/cm ³
Hardness	Nominal Value	Unit
Durometer Hardness (Shore D)	85	
Mechanical	Nominal Value	Unit
Tensile Strength	55.8	MPa
Flexural Strength	62.1	MPa
Compressive Strength	93.1	MPa
Thermal	Nominal Value	Unit
Glass Transition Temperature	85.0 to 90.0	°C
CLTE - Flow	5.5E-5	cm/cm/°C
Thermal Conductivity	0.19	W/m/K
Electrical	Nominal Value	Unit
Surface Resistivity	8.8E+15	ohms
Volume Resistivity (25°C)	4.2E+15	ohms · cm
Dielectric Strength	14	kV/mm
Dielectric Constant (25°C, 1 kHz)	4.20	
Dissipation Factor (25°C, 1 kHz)	0.035	
Thermoset	Nominal Value	Unit
Thermoset Components		

Hardener	Mix Ratio by Weight: 37	
Resin	Mix Ratio by Weight: 100	
Thermoset Mix Viscosity (25°C)	1500	cP
Cured Properties	Nominal Value	Unit
Linear Shrinkage	0.80	%
NOTE		
1.	Hardener	
2.	Resin	

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