CONAP® EN-5320

Polyurethane

Cytec Industries Inc.

Message:

CONAP EN-5320 is a filled two-component polyurethane system designed for use as a potting and encapsulating material for electronic components where critical thermal cycling characteristics are a factor.

CONAP EN-5320 has excellent electrical properties, low shrinkage, low stress build-up, and can be hand mixed or machine dispensed

General Information			
Features	Good Electrical Properties		
	Good Thermal Shock Resistance		
	Low Shrinkage		
Uses	Electrical Parts		
	Electrical/Electronic Applications		
RoHS Compliance	RoHS Compliant		
Appearance	Blue		
	Brown		
	Red		
Processing Method	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	
Specific Gravity			
1	1.24	g/cm³	
2	1.49	g/cm³	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore A)	95		
Elastomers	Nominal Value	Unit	
Tensile Strength	7.24	MPa	
Tensile Elongation (Break)	60	%	
Tear Strength	24.7	kN/m	
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity ³	0.57	W/m/K	Internal Method
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.5E+15	ohms	
Volume Resistivity	3.1E+14	ohms·cm	
Dielectric Strength	22	kV/mm	
Dielectric Constant (1 kHz)	4.20		

Dissipation Factor (1 kHz)	0.069		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (6.00 mm)	V-0		UL 94
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Weight: 17		
Thermoset Mix Viscosity (25°C)	4500	сР	
NOTE			
1.	Resin		
2.	Hardener		
3.	MIL-16923E		

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