

CONAP® EN-5850

Polyurethane
Cyttec Industries Inc.

Message:

CONAP EN-5850 is a fast gelling, filled, flame-retardant, two-component polyurethane system formulated for potting and encapsulating electrical and electronic components, modules, circuit boards, assemblies, and related devices.

General Information			
Features	Fast Gel		
	Filled		
	Flame Retardant		
	Good Electrical Properties		
	Low Temperature Flexibility		
Uses	Electrical Parts		
	Electrical/Electronic Applications		
	Printed Circuit Boards		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Brown		
Processing Method	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	
Specific Gravity	-- 1	1.21	g/cm ³
	-- 2	1.45	g/cm ³
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore A)	85		
Elastomers	Nominal Value	Unit	
Tensile Strength	5.79	MPa	
Tensile Elongation (Break)	190	%	
Tear Strength	24.5	kN/m	
Thermal	Nominal Value	Unit	
Glass Transition Temperature	-44.0	°C	
Thermal Conductivity	0.60	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	4.2E+15	ohms	


Volume Resistivity (25°C)	1.1E+15	ohms·cm	
Dielectric Strength (1.59 mm)	18	kV/mm	
Dielectric Constant (25°C, 1 kHz)	4.34		
Dissipation Factor (25°C, 1 kHz)	0.087		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (2.80 mm)	V-0		UL 94
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Weight: 20		
Thermoset Mix Viscosity (25°C)	7500	cP	
NOTE			
1.	Resin		
2.	Hardener		

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