CONAP® EN-5851

Polyurethane

Cytec Industries Inc.

Message:

CONAP EN-5851 is a 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	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/cm³
-- [2]	1.45	g/cm³
Hardness	**Nominal Value**	**Unit**
Durometer Hardness (Shore A)	85	
Elastomers	**Nominal Value**	**Unit**
Tensile Strength	5.93	MPa
Tensile Elongation (Break)	180	%
Tear Strength	28.0	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)	8500	cP	
NOTE			
1.	Resin		
2.	Hardener		

Recommended distributors for this material

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