CONAP® EN-5322

Polyurethane

Cytec Industries Inc.

General Information

Message:

CONAP EN-5322 is a filled, flame resistant polyurethane resin formulated for general purpose electrical/electronic potting, casting, and encapsulation. When tested in accordance with UL-94, flame resistance ratings of 94V-0 were obtained. CONAP EN-5322 has excellent handling properties at room temperature. Cure can be accomplished at room or elevated temperatures.

Features	Filled			
	Flame Retardant			
Uses	Electrical/Electronic Applications			
	General Purpose			
Appearance	Amber			
	Black			
	Tan			
Processing Method	Casting			
	Encapsulating			
	Potting			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity				
1	1.22	g/cm³		
²	1.65	g/cm³		
3	1.69	g/cm³		
Water Absorption (25°C, 24 hr)	0.19	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore D)	70		ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength	11.0	МРа	ASTM D638	
Tensile Elongation (Break)	35 to 40	%	ASTM D638	
Thermal	Nominal Value	Unit	Test Method	
CLTE - Flow ⁴	1.5E-4	cm/cm/°C	Internal Method	
Thermal Conductivity ⁵	0.29	W/m/K	Internal Method	
Electrical	Nominal Value	Unit	Test Method	
Surface Resistivity	1.0E+14	ohms	ASTM D257	
Volume Resistivity (25°C)	1.6E+14	ohms·cm	ASTM D257	
Dielectric Strength	20	kV/mm	ASTM D149	

Dielectric Constant (25°C, 1 kHz)	4.30		ASTM D150
Dissipation Factor (25°C, 1 kHz)	0.020		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm)	V-0		UL 94
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Weight: 16		
Thermoset Mix Viscosity (25°C)	6000	cP	
Additional Information	Nominal Value	Unit	Test Method
Weight Loss on Heating ⁶	0.63	%	
Linear Shrinkage	0.65	%	Internal Method
NOTE			
1.	Resin		
2.	Mixed System		
3.	Hardener		
4.	MIL-16923E		
5.	MIL-16923E		
6.	7 days @ 130°C		

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