

CONATHANE® CE-1155

Polyurethane
Cyttec Industries Inc.

Message:

CONATHANE CE-1155 is a two-component, solvent-based polyurethane printed circuit board coating designed for use in adverse environments. CONATHANE CE-1155 provides outstanding resistance to moisture and good abrasion resistance. The cured film is hard and tough and has excellent adhesion to phenolic and epoxy-glass laminates. When tested over printed circuit patterns, excellent results are obtained with 1.5 mil films. Defective components can be replaced in coated areas using ordinary repair procedures without degradation or discoloration. Spot re-coating can then be accomplished. CONATHANE CE-1155 may be applied by spray, dip, or brush techniques and will cure at room or elevated temperatures. The cured film is suitable for continuous operation up to 130°C. The system contains a fluorescent dye to aid inspection under ultraviolet light.

General Information			
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Flexibility		
	Good Toughness		
	Hydrolytically Stable		
	Solvent Resistant		
Uses	Coating Applications		
	Electrical Parts		
	Electrical/Electronic Applications		
	Film		
Agency Ratings	MIL I-46058C		
Appearance	Amber		
	Clear/Transparent		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	0.958	g/cm³	
-- ²	1.13	g/cm³	
Solids Content			
Hardener	64 to 66	%	
Resin	60	%	
Viscosity			Brookfield
Hardener : 25°C	70	mPa·s	
Resin : 25°C	300	mPa·s	
Pencil Hardness	HB		
Flash Point			

Hardener	7	°C	
Resin	27	°C	
Fungal Resistance	Non-nutrient		ASTM G21
Electrical	Nominal Value	Unit	
Surface Resistivity	5.7E+14	ohms	
Volume Resistivity (25°C)	1.2E+16	ohms·cm	
Dielectric Strength			
0.0508 mm	120	kV/mm	
0.559 mm	41	kV/mm	
Dielectric Constant			
25°C, 100 Hz	3.50		
25°C, 1 kHz	3.43		
25°C, 1 MHz	3.21		
Dissipation Factor			
25°C, 100 Hz	0.014		
25°C, 1 kHz	0.014		
25°C, 1 MHz	0.016		
Insulation Resistance ³ (25°C)	> 2.5E+13	ohms	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 70		
Resin	Mix Ratio by Weight: 100		
Pot Life ⁴ (25°C)	360	min	
Shelf Life (25°C)	65	wk	
Thermoset Mix Viscosity (25°C)	72.0	cP	ASTM D2393
Demold Time (25°C)	7200 to 10000	min	
NOTE			
1.	Hardener		
2.	Resin		
3.	Initially and 50% R.H.		
4.	400 Gram Mass		

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