

# CONAPOXY® FR-1080

Epoxy; Epoxide  
Cyttec Industries Inc.

Message:  
CONAPOXY FR-1080 is a two-part high temperature epoxy potting system designed to meet Class H (180°C) operating requirements.

General Information		
Appearance	Amber	
	Brown	
Processing Method	Potting	
Physical	Nominal Value	Unit
Specific Gravity		
-- 1	1.03	g/cm <sup>3</sup>
-- 2	1.23	g/cm <sup>3</sup>
Shrinkage	1.4	%
Hardness	Nominal Value	Unit
Durometer Hardness (Shore D)	90	
Mechanical	Nominal Value	Unit
Tensile Strength	56.5	MPa
Tensile Elongation (Break)	2.0	%
Elastomers	Nominal Value	Unit
Tear Strength	43.8	kN/m
Electrical	Nominal Value	Unit
Surface Resistivity	5.5E+16	ohms
Volume Resistivity (25°C)	9.7E+16	ohms·cm
Dielectric Strength	24	kV/mm
Dielectric Constant (25°C, 1 kHz)	3.12	
Dissipation Factor (25°C, 1 kHz)	4.0E-3	
Thermoset	Nominal Value	Unit
Thermoset Components		
Hardener	Mix Ratio by Weight: 83	
Resin	Mix Ratio by Weight: 100	
Thermoset Mix Viscosity (25°C)	2500	cP
NOTE		
1.	Resin	
2.	Hardener	

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