CONAPOXY®
EPOXY UNFILLED SYSTEMS

Description	Unfilled, low viscosity casting systems recommended for potting and encapsulating resistors, connectors, solenoids, transformers, coils, and other electrical devices			Undiluted, low viscosity potting and encapsulating systems with excellent impact and thermal shock resistance.			High-temperature epoxy potting and impregnation system designed to meet Class H operating equirements.
	CONAPOXY RN-1000 with			CONAPOXY RN-1200 with			CONAPOXY FR-1080
CONACURE	EA-02	EA-028	EA-87	EA-02	EA-028	EA-87	Part A / Part B
Mix Ratio by Weight, Resin/Hardener	100 / 11	100 / 28	100 / 37	100 / 11	100 / 28	100 / 37	100 / 83
Mix Ratio by Volume, Resin/Hardener	100 / 12	100 / 29	100 / 40	100 / 13	100 / 32	100 / 45	100 / 67
Mixed Viscosity @ 25°C, cps	600	500	250	3,000	1,500	1,500	2,500
Pot Life - 100 Grams @ 25°C	30 min.	30 min.	90 min.	30 min.	40 min.	60 min.	>2 hrs.
Cure Time & Temperature	24 hrs. @ 25°C	24 hrs. @ 25°C	24 hrs. @ 25°C	24 hrs. @ 25°C	24 hrs. @ 25°C	24 hrs. @ 25°C	8 hrs. @ 25°C
Typical Physical Properties - Cured System							
Operating Temperature	105°C	105°C	105°C	130°C	130°C	130°C	180°C
Hardness, Shore D	80	80	88	84	84	85	90
Linear Shrinkage, %	1.30	1.40	0.80	1.10	1.20	0.80	1.42
Water Absorption, %, 7 Days @ 25°C	0.20	0.20	0.32	0.15	0.20	0.30	
Tensile Strength, PSI	10,000	4,000	7,200	10,000	7,600	8,100	8,200
Typical Electrical Properties - Cured System							
Dielectric Constant @ 1KHz - @ 25°C / 105°C	3.50 / 3.70	4.70 / 7.50	5.00 / 7.50	3.50 / 3.70	4.70 / 5.50	4.20 / 5.00	3.12 / 3.29
Dissipation Factor @ 1KHz - @ 25°C / 105°C	0.002 / 0.020	0.015 / 0.120	0.040 / 0.150	0.017 / 0.08	0.001 / 0.08	0.035 / 0.15	0.004 / 0.004
Volume Resistivity, ohm-cm @ 25°C	3.0×10^{14}	4.0×10^{17}	9.0×10^{15}	2.0×10^{14}	4.0×10^{13}	4.2×10^{15}	9.7×10^{16}
@ 105°C	2.0×10^{11}	3.0×10^{11}	5.5×10^{11}	3.0×10^{11}	4.0×10^{10}	2.0×10^{11}	2.9×10^{14}
Surface Resistivity, ohms - @ 25°C	2.0×10^{15}	9.5×10^{14}	4.0×10^{16}	2.4×10^{15}	1.0×10^{15}	8.8×10^{15}	5.5×10^{16}
@ 105°C	4.5×10^{12}	1.0×10^{12}	7.5×10^{13}	4.0×10^{12}	8.5×10^{11}	5.2×10^{12}	5.7×10^{14}
Dielectric Strength, VPM	350	350	350	350	350	350	600