1 Industrial Circle, Lincoln, RI 02865, USA
Phone: (401) 726-4500 ■ Fax: (401) 726-4502
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ISO 9001-2008 Certified

SELECTOR GUIDE
POTTING & ENCAPSULATING COMPOUNDS

Epoxyset's potting and encapsulating compounds are formulated for the demanding high performance requirements of the electrical and electronic industries for such applications as the potting of electronic ballasts, capacitors, power supplies, relays and other devices with high heat dissipation requirements.

Our Flame retardant and High Thermal Conductivity products provide higher flame retardancy, increased high-voltage insulating characteristics and improved thermal management over currently available materials, significantly reducing the operating temperature of potted internal components - thus extending the life cycle of electrical devices.

Applications:

- Circuit Board Protection - Sensitive electronic components
- Potting telecommunications equipment
- Thermal cut-out switches
- Potting ballasts, pumps, surge suppressors, connectors, switches, relays, coils, transformers, power supplies, resistors, solenoids, proximity switches, transistors, sensors, power line filters, timers, etc

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LOW EXPANSION - EPOXY COMPOUNDS

Product	Color	Mix Ratio by weight	Pot life @ 25°C	Mix Viscosity @ 25°C	Cure Schedule	Specific Gravity	Hardness Shore	Glass Transition Temp (Tg)	CTE below Tg (in/in/10^{-6})	Thermal Conductivity (W/mK)	Service Temp Range	Volume Resistivity (ohm-cm)
EC-1002	Black	100/14	1 hr	1500-2000	24 hrs @ 25°C 2 hrs @ 70°C	1.55	D-88	55°C	48	0.7	-40˚C - 105˚C	10^{15}
EC-1004	Black	100/12	1 hr	1500-2000	24 hrs @ 25°C 2 hrs @ 70°C	1.55	D-88	55°C	48	0.7	-40°C to 105°C	10^{15}
EC-1021	Black	100/25	>8 hrs	3000	4-6 hrs @ 125°C	1.72	D-90	124°C	25	0.7	-40°C to 155°C	10^{16}
EC-1024	Black	100/5	1-2 hrs	6500	24 hrs @ 25°C 2 hrs @ 80°C	1.7	D-85	80°C	34	0.7	-40°C to 105°C	10^{15}
EC -1025	Black	100/5	4 hrs	100000	4-6 hrs @ 125°C	1.9	D-94	165°C	28	0.7	-40°C to 180°C	10^{16}
EC-1026	Black	100/25	>8 hrs	4000	2 hrs @ 80°C + 2 hrs @ 150°C	1.72	D-90	120°C	29	0.7	-40°C to 180°C	10^{16}
EC-1027	Black	100/10	>4 hrs	39,000	4-6 hrs @ 125°C	1.76	D-90	150°C	15	0.7	-40°C to 220°C	10^{15}
EC-1031	Black	100/6	½ hr	6000	24 hrs @ 25°C 2 hrs @ 80°C	1.55	D-86	110°C	34	0.75	-40°C to 120°C	10^{15}
EC-1051	Black	100/6	½ hr	30,000	24 hrs @ 25°C 2 hrs @ 80°C	1.55	D-86	110°C	34	0.75	-40°C to 105°C	10^{15}
EC-1052	Black	100/25	>8 hrs	4000	2 hrs @ 80°C + 2 hrs @ 150°C	1.7	D-90	120°C	29	0.75	-40°C to 180°C	10^{16}
EC-1052LV	Black	100/10	>3 hrs	4000-6000	2-4 hrs @ 125°C	1.7	D-91	114°C	26	0.75	-40°C to 190°C	10^{15}
EC-1082	Black	100/8	>4 hrs	1200 @ 70°C	4-6 hrs @ 125°C	1.82	D-94	138°C	13.5	0.75	-40°C to 180°C	10^{15}

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THERMALLY CONDUCTIVE - EPOXY COMPOUNDS

Product	Color	Mix Ratio by weight	Pot life @ 25°C	Mix Viscosity @ 25°C	Cure Schedule	Specific Gravity	Hardness Shore	Glass Transition Temp (Tg)	CTE below Tg ($in/in/10^{-6}$)	Thermal Conductivity (W/mK)	Service Temp Range	Volume Resistivity (ohm-cm)
EC-1006	**Black**	100/12	1-2 hr	1400-1800	**24 hrs @ 25°C 2 hrs @ 80°C**	1.58	D-89	78°C	39	0.75	-40°C to 120°C	10^{14}
EC-1006M-4	**Black**	100/12	2 hr	4000-8000	**48 hrs @ 25°C 2 hrs @ 100°C**	1.62	A-85	28°C	>70	0.75	-40°C to 120°C	10^{15}
EC-1006M-5	**Black**	100/14	2 hr	3000-4000	**24 hrs @ 25°C 2 hrs @ 80°C**	2.1	A-85	28°C	>70	1.4	-40°C to 120°C	10^{15}
EC-1009	**Black**	100/10	2-3 hr	3000-5000	**24 hrs @ 25°C 2 hrs @ 100°C**	1.9	D-89	70°C	34	1.4	-40°C to 105°C	10^{15}
EC-1012M/ EH-20M	**Black**	100/10	1-2 hr	2500-35000	**24 hrs @ 25°C 2-3 hrs @ 65°C+ 1 hr @130C**	1.7	D-91	124°C	38	1.1	-40°C to 160°C	10^{15}
EC-1012M/ EH-26	**Black**	100/10	>3 hr	3000-5000	**4 hrs @ 93°C + 1 hr @130C**	1.7	D-91	114°C	40	1.1	-40°C to 190°C	10^{15}
EC-1012M-3	**Blue**	100/15	30-45 minutes	3000-4000	**24 hrs @ 25°C 2-3 hrs @ 65°C**	1.75	D-84	75°C	29	1.1	-40°C to 105°C	10^{15}
EC-1015	**Black**	100/25	>8 hr	3000	**4 hrs @ 125°C**	1.95	D-92	145°C	34	1.1	-40°C to 180°C	10^{16}
EC-1015LV	**Black**	100/9	>4 hr	5000-6000	**4 hrs @ 125°C**	2.1	D-92	145°C	34	1.4	-40°C to 180°C	10^{16}
EC-1015LV-RT	**Black**	100/10	1-2 hr	2000-3000	**24 hrs @ 25°C 2 hrs @ 70°C**	2.1	D-92	67°C	49	1.4	-40°C to 130°C	10^{15}
EC-1015M-3	**Black**	ONE PART	1 Month	80,000	**1 hr @ 125°C 2 hrs @ 100°C**	2.25	D-94	126°C	34	1.8	-40°C to 160°C	10^{15}
EC-1017	**Black**	100/6	>4 hr	45,000	**4 hrs @ 125°C**	2.36	D-93	148°C	21	2.1	-40°C to 180°C	10^{15}
EC-1017RT	**Black**	100/6	1-2 hrs	30,000	**24 hrs @ 25°C 2 hrs @ 80°C**	2.36	D-93	82°C	19	2.1	-40°C to 120°C	10^{15}
EC-1207	Gray	100/100	2 hr	9000-12,000	**48 hrs @ 25°C 2-4 hrs @ 65°C**	1.55	D-76	55°C	>50	0.9	-40°C to 105°C	10^{14}

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HIGH TEMPERATURE - EPOXY COMPOUNDS

Product	Color	Mix Ratio by weight	Pot life @ 25°C	Mix Viscosity @ 25°C	Cure Schedule	Specific Gravity	Hardness Shore	Glass Transition Temp (Tg)	CTE below Tg (in/in/10^{-6})	Thermal Conductivity (W/mK)	Service Temp Range	Volume Resistivity (ohm-cm)
EC-1012M/ EH-20M	**Black**	100/10	1-2 hr	2500-35000	**24 hrs @ 25°C 2-3 hrs @ 65°C+ 1 hr @130C**	1.7	D-91	124°C	38	1.1	-40°C to 160°C	10^{15}
EC-1012M/ EH-26	**Black**	100/10	>3 hr	3000-5000	**4 hrs @ 93°C + 1 hr @130C**	1.7	D-91	114°C	40	1.1	-40°C to 190°C	10^{15}
EC-1015	**Black**	100/25	>8 hr	3000	**4 hrs @ 125°C**	1.95	D-92	145°C	34	1.1	-40°C to 180°C	10^{16}
EC-1015LV	**Black**	100/9	>4 hr	5000-6000	**4 hrs @ 125°C**	2.1	D-92	145°C	34	1.4	-40°C to 180°C	10^{16}
EC-1015M-3	**Black**	ONE PART	1 Month	80,000	**1 hr @ 125°C 2 hrs @ 100°C**	2.25	D-94	126°C	34	1.8	-40°C to 160°C	10^{15}
EC-1017	**Black**	100/6	>4 hr	45,000	**4 hrs @ 125°C**	2.36	D-93	148°C	21	2.1	-40°C to 180°C	10^{15}
EC-1021	**Black**	100/25	>8 hrs	3000	**4-6 hrs @ 125°C**	1.72	D-90	124°C	25	0.7	-40°C to 155°C	10^{16}
EC -1025	**Black**	100/5	4 hrs	100000	**4-6 hrs @ 125°C**	1.9	D-94	165°C	28	0.7	-40°C to 180°C	10^{16}
EC-1026	**Black**	100/25	>8 hrs	4000	**2 hrs @ 80°C + 2 hrs @ 150°C**	1.72	D-90	120°C	29	0.7	-40°C to 180°C	10^{16}
EC-1027	**Black**	100/10	>4 hrs	39,000	**4-6 hrs @ 125°C**	1.76	D-90	150°C	15	0.7	-40°C to 220°C	10^{15}
EC-1052	**Black**	100/25	>8 hrs	4000	**2 hrs @ 80°C + 2 hrs @ 150°C**	1.7	D-90	120°C	29	0.75	-40°C to 180°C	10^{16}
EC-1052LV	**Black**	100/10	>3 hrs	4000-6000	**2-4 hrs @ 125°C**	1.7	D-91	114°C	26	0.75	-40°C to 190°C	10^{15}
EC-1082	**Black**	100/8	>4 hrs	1200 @ 70C	**4-6 hrs @ 125°C**	1.82	D-94	138°C	13.5	0.75	-40°C to 180°C	10^{15}

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SILICONE POTTING COMPOUNDS

Product	Color	Mix Ratio by weight	Pot life @ 25°C	Mix Viscosity @ 25°C	Cure Schedule	Specific Gravity	Hardness Shore	Thermal Conductivity (W/mK)	Service Temp Range	Volume Resistivity (ohm-cm)
SC-440	Clear	100/100	2 hrs	600-800	**30 min @ 125°C or 1 hr @ 100°C**	1.05	A-40	0.2	-60°C to 200°C	10^{14}
SC-450	Clear	100/10	1 hr	800-1000	**24 hrs @ 25°C or 1 hr @ 100°C**	1.05	A-38	0.2	-60°C to 200°C	10^{14}
SC-454M-6	Red	100/4	1 hr	4000-6000	**24 hrs @ 25°C**	2.0	A-65	1.6	-60°C to 250°C	10^{14}
SC-501	Gray	100/100	1-2 hr	6000-8000	**30 min @ 125°C or 15 min @ 150°C**	2.0	A-62	1.0	-60°C to 200°C	10^{14}
SC-550	Gray	100/100	>48 hrs	3000-4000	**30 min @ 125°C or 1 hr @ 100°C**	1.4	A-30	0.55	-60°C to 200°C	10^{14}
SC-550LV (UL Listed)	Gray	100/100	>48 hrs	3000-4000	**30 min @ 125°C or 1 hr @ 100°C**	1.4	A-30	0.55	-60°C to 200°C	10^{14}
SC-550LV-RT (UL Listed)	Gray	100/100	1-2 hrs	3000-4000	**30 min @ 125°C or 1 hr @ 100°C**	1.4	A-30	0.55	-60°C to 200°C	10^{14}

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URETHANE POTTING COMPOUNDS

Product	Color	Mix Ratio by weight	Pot life @ 25°C	Mix Viscosity @ 25°C	Cure Schedule	Specific Gravity	Hardness Shore	Thermal Conductivity (W/mK)	Service Temp Range	Volume Resistivity (ohm-cm)
UC-2521	Beige	25/100	30 min	2000-4000	**24-48 hrs @ 25°C or 2 hrs @ 80°C**	1.4	D-50	0.75	-40°C to 120°C	10^{14}
UC-2524	Black	16/100	60-90 min	1500-3000	**24-48 hrs @ 25°C or 2 hrs @ 80°C**	1.45	A86	0.75	-40°C to 120°C	10^{14}
UC-2209	Blue	8/100	30-60 min	5000-8000	**24-48 hrs @ 25°C or 2 hrs @ 80°C**	1.45	A-80	0.5	-40°C to 120°C	10^{14}
UC-2356	Black	45/100	30-60 min	300-600	**24-48 hrs @ 25°C or 2 hrs @ 80°C**	1.2	D-25	0.2	-40°C to 120°C	10^{14}
UC-2658	Beige	44/100	20 min	4000-6000	**24-48 hrs @ 25°C or 2 hrs @ 80°C**	1.3	A-80	0.3	-40°C to 120°C	10^{14}
UC-052107-1	Black	15/100	8-10 min	5000-7000	**24-48 hrs @ 25°C or 2 hrs @ 80°C**	1.56	A-90	0.5	-40°C to 120°C	10^{14}