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**North America:** Emerson & Cuming, 46 Manning Road, Billerica, MA 01821 U.S.A. Tel: 1-978-636-9700 Toll Free: 1-800-832-4929 Fax: 1-978-436-9701  
**Europe:** Nijverheidsstraat 7, B-2260 Westerlo, Belgium Tel: +32 (0) 14 57 56 11 Fax: +32 (0) 14 58 55 30 E-mail: emerson.cuming@innet.be

**Asia-Pacific:** 100 Kaneda, Atsugi-shi, Kanagawa-ken, 243 Japan Tel: +81 462-25-8815 Fax: +81 462-22-1347

**China:** No. 332 Meigui South Road, Waigaoqiao Free Trade Zone, Shanghai 200131, P.R. China Tel: (8621) 38984800 Fax: (8621) 50484160

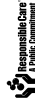
**Korea:** 3rd Fl, Green Tower Building, 1617-34, Seocho-dong, Seocho-gu, Seoul 137-877, Tel: (82)-2-3471-5675, Fax: (82)-2-3471-5674

[www.emersoncuming.com](http://www.emersoncuming.com)

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# SELECTOR GUIDE

## THERMAL MANAGEMENT INTERFACE MATERIALS

ELECTRICALLY CONDUCTIVE ADHESIVES & FILMS - ELECTRICALLY INSULATING ADHESIVES & FILMS - ENCAPSULANTS

Product	Chemistry	Thermal Conductivity W/m.K	Filler	Recommended Cure Schedule	Service Temperatures	Features
<b>Electrically Conductive Adhesives</b>						
ECCOBOND™ 56 C	Epoxy	3.0	Ag	2 hours @ 65°C	120°C (Catalyst 9)/175°C (Catalyst 11)	Two component epoxy paste with low temperature cure capability
ECCOBOND CT 4042-30	Epoxy	2.5	Ag	20 minutes @ 120°C	from -45 to +150°C	Available in a two component or in a premixed and frozen (FP) version
ECCOBOND C 805-1 # 500	Epoxy	3.5	Ag	1 hour @ 150°C	from -45 to +150°C	One component general use adhesive, long RT working life
ECCOBOND CE 8500	Modified Epoxy	4.0	Ag	1.5 hour @ 120°C	from -45 to +200°C	One component low stress adhesive for mismatched TCE applications
ABLEBOND™ 84-1 LMI	Epoxy	2.4	Ag	1 hour @ 150°C	from -45 to +150°C	Low bleed, low outgassing epoxy for automatic dispensing
ABLEBOND 84-1 LMI T1	Epoxy	3.6	Ag	1 hour @ 150°C	from -45 to +150°C	Screen printable, solvent free adhesive
<b>Electrically Conductive Films</b>						
ABLEFILM™ ECF 561 E	Modified Epoxy	1.6	Ag	1 hour @ 150°C	from -45 to +150°C	Flexible, rubber modified epoxy film for mismatched TCE applications, electrically conductive in all axes
ABLEFILM ECF 568	Epoxy	0.9	Ag	2 hours @ 95°C	from -45 to +150°C	Low temperature cure film containing glass fabric support
ABLEFILM 5025 E	Epoxy	3.5	Ag	30 minutes @ 150°C	from -45 to +150°C	Unsupported epoxy film providing excellent bondline control
<b>Electrically Insulating Adhesives</b>						
ECCOBOND 282	Epoxy	1.2	Al <sub>2</sub> O <sub>3</sub>	4 hours @ 100°C or 30 minutes @ 150°C	from -20°C to +175°C	One component, screen printable epoxy adhesive
ECCOBOND 285	Epoxy	1.3	Al <sub>2</sub> O <sub>3</sub>	24 hours @ RT (Catalyst 9) or 2 hours @ 120°C (Catalyst 11)	from -55°C to +180°C (Catalyst 11)	Two component epoxy adhesive with good thermal shock resistance
ECCOBOND E 8502	Modified Epoxy	1.0	Boron Nitride	1 hour @ 150°C	from -45 to +200°C	One component flexible adhesive for mismatched TCE applications, non abrasive filler
ECCOBOND TS 5502	Silicone	0.8	Al <sub>2</sub> O <sub>3</sub>	1 hour @ 150°C	from -45 to +200°C	One component, solventless silicone adhesive; heat sink bonding
ABLETHERM™ 12-1	Silicone	1.3	Al <sub>2</sub> O <sub>3</sub>	1 hour @ 95°C	from -45 to +200°C	Reworkable silicone adhesive
<b>Electrically Insulating Films</b>						
ABLEFILM 550 K	Epoxy	0.8	Al <sub>2</sub> O <sub>3</sub>	30 minutes @ 150°C	from -45 to +150°C	Thermally conductive film for substrate attach and heat sink bonding, excellent adhesion to gold
ABLEFILM 561 K	Modified Epoxy	0.9	Al <sub>2</sub> O <sub>3</sub>	30 minutes @ 150°C	from -45 to +150°C	Glass fabric reinforced film designed for bonding TCE mismatched materials
<b>Encapsulants</b>						
STYCAST™ 1495	Epoxy	1.2	SiO <sub>2</sub>	24 hours @ RT (Catalyst 9) or 4 hours @ 100°C	from -55°C to +155°C (Catalyst 11)	Two component, medium viscosity, cost effective encapsulant
STYCAST 2850 FT	Epoxy	1.3	Al <sub>2</sub> O <sub>3</sub>	24 hours @ RT (Catalyst 9) or 2 hours @ 100°C (Catalyst 11)	from -55°C to +180°C (Catalyst 11)	Two component encapsulant, excellent electrical insulation, excellent chemical resistance
STYCAST 2850 MT	Epoxy	1.9	Al <sub>2</sub> O <sub>3</sub>	24 hours @ RT (Catalyst 9) or 2 hours @ 100°C (Catalyst 11)	from -55°C to +180°C (Catalyst 11)	Two component encapsulant, higher thermal conductivity, larger practice size filler
STYCAST TU 2512	PU	1.0	Al <sub>2</sub> O <sub>3</sub>	24 hours @ RT or 4 hours @ 65°C	from -40°C to +125°C	Two component, medium viscosity polyurethane, flame retardant
STYCAST 4952	Silicone	0.9	Al <sub>2</sub> O <sub>3</sub>	24 hours @ RT or 4 hours @ 65°C	from -65°C to +260°C	Two component RTV silicone, high temperature resistance
<b>Thermal Grease</b>						
STYCAST TC 8 M	Silicone	1.5	Al <sub>2</sub> O <sub>3</sub>	NA	from -40°C to +200°C	Silicone grease containing alumina