



ISO-9001-2008 Certified

Selector Guide – Thermally Conductive Adhesives

PRODUCTS	POT LIFE @ 25°C	VISCOSITY @ 25°C (cPs)	CURE SCHEDULE ALTERNATE CURE	HARDENESS (SHORE)	GLASS TRANSITION TEMP (Tg)	CTE Below Tg (in/in/°C)	DIE SHEAR STRENGTH @ RT (80 mil X 80 mil)	THERMAL CONDUCTIVITY (W/m²K)	MAX. OPER. TEMPERATURE CONTINUOUS	SHELF LIFE
ONE COMPONENT										
EB-401-3	>30 days	100,000	1 hr @ 180°C 2 hrs @ 150°C	D-95	107	38	>20 kg/6800 psi	0.8	200°C	3 months @ 25°C
EB-402-1	3-4 days	PASTE	2 hrs @ 125°C 30 min @ 150°C	D-92	145	34	>15 kg/5100 psi	1.1	200°C	1 Year @ -40°C
EB-403-1	>30 days	PASTE	2 hrs @ 125°C 30 min @ 150°C	D-93	132	28	>10 kg/3400 psi	1.8	260°C	3 months @ 25°C
EB-403-1LV	> 30 days	PASTE	2 hrs @ 125°C 30 min @ 150°C	D-93	132	28	>10 kg/3400 psi	1.4	260°C	3 months @ 25°C
EB-403-3	> 30 days	25,000 – 30,000	1 hr @ 125°C 30 min @ 150°C	D-78	95	38	>10 kg/3400 psi	1.2	200°C	3 months @ 25°C
EB-404-1	<10 min @ 80°C	35,000	30 min @ 150°C 1 hr @ 125°C	D-90	130	39	>15 kg/5100 psi	1.1	165°C	3 months @ 25°C
EC-1015M-3	30-50 min @ 80°C	80,000 – 100,000	1 hr @ 125°C 2 hrs @ 100°C	D-94	126	34	>10 kg/3400 psi	1.4	200°C	3 months @ 25°C
TWO COMPONENTS										
EB-316TC	1 hr	>250,000	2 hrs @ 100°C 24-48 hrs @ 25°C	D-81	68	66	>5 kg/1700 psi	1.0	150°C	1 Year @ 25°C
EB-316BN-2	1 hr	>250,000	2 hrs @ 100°C 24-48 hrs @ 25°C	D-86	64	65	>5 kg/1700 psi	2.0	150°C	1 Year @ 25°C
EB-409-M4	20 min	PASTE	1 hr @ 65°C 30 min @ 100°C	D-50	45	40	>5 kg/1700 psi	1.0	150°C	1 Year @ 25°C
EB-425	>4 hrs	PASTE	2 hrs @ 100°C + 2 hrs @ 150°C 4 hrs @ 125°C	D-94	165	29	>10 kg/3400 psi	1.4	260°C	1 Year @ 25°C
EB-470	5-6 hrs	5000-8000	<5 min @ 175°C 2 hrs @ 80-90°C	D-85	98	18	>10 kg/3400 psi	1.0	200°C	1 Year @ 25°C
EB-474	>48 hrs	45,000 – 65,000	5 min @ 150°C 20 min @ 100°C	D-90	110	22	>15 kg/5100 psi	1.3	260°C	1 Year @ 25°C
EB-485	30-45 min	PASTE	2 hrs @ 70°C 24-48 hrs @ 25°C	D-90	120	26	>10 kg/3400 psi	1.4	150°C	1 Year @ 25°C
EB-486	90-120 min	PASTE	2 hrs @ 100°C 24-48 hrs @ 25°C	D-86	80	60	>10 kg/3400 psi	1.1	150°C	1 Year @ 25°C
EC-1015HT	>5 hrs	6000-12,000	1 hr @ 150°C 2 hrs @ 125°C	D-90	91	34	>5 kg/1700 psi	0.7	200°C	1 Year @ 25°C
EC-1015	>8 hrs	3000	1 hr @ 150°C 2 hrs @ 125°C	D-92	145	34	>10 kg/3400 psi	1.1	200°C	1 Year @ 25°C
EC-1017	>4 hrs	45,000	1-2 hrs @ 150°C 4 hrs @ 125°C	D-93	148	37	>15 kg/5100 psi	1.6	200°C	1 Year @ 25°C

DISCLAIMER: All data given here is offered as a guide to the use of these materials and not as a guarantee of their performance. The user should evaluate their suitability for own purposes. Properties are typical and should not be used in preparing specifications. Statements are not to be construed as recommendations to infringe any patent.



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Recommended Application Table - Thermally Conductive Adhesives

PRODUCTS	EB-401-3	EB-402-1	EB-403-1	EB-403-1LV	EB-403-3	EB-404-1	EC-1015M-3	EB-316-TC	EB-316-BN2	EB-409-M4	EB-425	EB-470	EB-474	EB-485	EB-486	EC-1015HT	EC-1015	EC-1017
SUBSTRATE ATTACH		●	●	●	●	●	●	●	●		●	●	●	●	●	●		
LID ATTACH		●	●	●	●	●	●	●	●				●	●	●	●		
HEAT SINKING ADHESIVE		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●
DIE ATTACH HYBRID/MCM		●	●	●	●	●		●	●		●	●		●	●			
CHIP ENCAPSULANT	●																	●
DIE ATTACH SEMICONDUCTOR		●	●	●	●	●		●	●	●	●	●		●	●			
AEROSPACE APPLICATIONS	●	●	●	●	●	●	●				●	●			●	●		●
HIGH TEMP. APPLICATIONS	●	●	●	●	●	●	●						●	●		●	●	●
CRYOGENIC APPLICATIONS								●	●	●					●			●
SMD ATTACH		●	●	●	●	●		●	●		●	●	●	●	●			
POTTING AND CAVITY FILLING	●				●	●	●									●	●	●

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