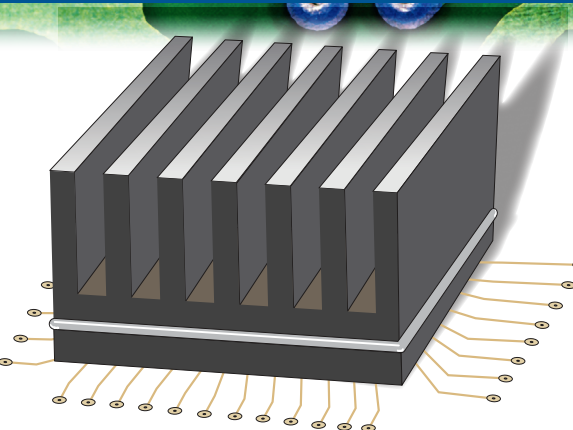


Thermal Interface Materials (TIM) provide a **thermally conductive, void-free** bond for attaching heat sinks. These materials eliminate air gaps in heat sink attach which leads to improved thermal management properties. **EPO-TEK®** thermal interface materials are ideal for use in today's high heat/high power applications including: photovoltaics, lasers and laser diodes, LED and high power RF amplifiers. These materials can also be used for heater attach applications in LCD and avionics.

Because interfaces and other geometry factors play such a large role in determining the actual thermal resistance of an adhesive in a device, a high bulk thermal conductivity value for an adhesive is important, *but may not* always be a sufficient predictor of low resistance. To achieve the most efficient thermal transfer in an actual device, low thermal resistance is required.



EPO-TEK	NO. of COMPONENTS	COLOR Before/After CURE (thin film)	CURE TEMPERATURE (minimal)	VISCOSITY @ 23°C	GLASS TRANSITION TEMPERATURE (T _g)	DIE SHEAR STRENGTH @ RT (80mil x 80mil)	INDEX OF REFRACTION (N _d)	SPECTRAL TRANSMISSION	TGA DEGRADATION TEMPERATURE	CTE Below T _g / Above T _g (in/in/°C)	POT LIFE (@ room temp.)	SHELF LIFE (@ room temp.)		
ELECTRICAL	H20E	Two	Silver/Silver	175°C – 45 seconds 80°C – 3 hours	2,200-3,200 cPs @ 100 rpm	≥80°C	>5 kg/1,700 psi	N/A	N/A	425°C	31 x 10 ⁻⁶ 158 x 10 ⁻⁶	2.5 days	1 year	
	H20E-HC	Two	Silver/Silver	175°C – 30 min 150°C – 1 hour	3,500-6,000 cPs @ 50 rpm	N/A	>5 kg/1,700 psi	N/A	N/A	372°C	53 x 10 ⁻⁶ 80 x 10 ⁻⁶	2.5 days	1 year	
	EK1000	One	Silver/Silver	200°C – 30 min 150°C – 1 hour + 200°C – 1 hour (post-cure)	1,800-3,600 cPs @ 100 rpm	80°C	10 kg/3,400 psi	N/A	N/A	357°C	38 x 10 ⁻⁶ 94 x 10 ⁻⁶	2 weeks	1 year @ -40°C	
	ED1003	Two	Silver/Silver	150°C – 1 hour	2,300-4,300 cPs @ 100 rpm	169°C	>8 kg/2,720 psi	N/A	N/A	326°C	41 x 10 ⁻⁶	28 days	1 year @ -40°C	
THERMAL	HIGH PERFORMANCE	930-4	Two	Ivory/Amber	150°C – 10 min 80°C – 6 hours	12,000-17,000 cPs @ 20 rpm	≥90°C	≥15 kg/5,100 psi	N/A	N/A	425°C	27 x 10 ⁻⁶ 136 x 10 ⁻⁶	24 hours	1 year
		930	Two	White/Amber	150°C – 10 min 80°C – 6 hours	> 819,200 cPs	≥90°C	≥5 kg/1,700 psi	N/A	N/A	350°C	16 x 10 ⁻⁶ 81 x 10 ⁻⁶	6 hours	1 year
		T905-BN3	Two	Grey/Grey	80°C – 2 hours	2,000-7,000 cPs @ 50 rpm	≥40°C	≥10 kg/3,400 psi	N/A	N/A	347°C	37 x 10 ⁻⁶ 151 x 10 ⁻⁶	3 hours	1 year
		T7109	Two	White/White	150°C – 10 min 80°C – 8 hours	14,000-20,000 cPs @ 20 rpm	≥45°C	≥15 kg/5,100 psi	N/A	N/A	377°C	46 x 10 ⁻⁶ 239 x 10 ⁻⁶	4 hours	1 year
		T7109-19	Two	Grey/Grey	80°C – 2 hours 23°C – 24 hours	44,738 cPs @ 5 rpm	27°C	8.3 kg/2,822 psi	N/A	N/A	338°C	59 x 10 ⁻⁶ 216 x 10 ⁻⁶	1.5 hours	1 year
STANDARD	T7110	Two	Grey/Grey	150°C – 15 min 23°C – 3 days	1,400-2,200 cPs @ 100 rpm	≥40°C	≥10 kg/3,400 psi	N/A	N/A	314°C	31 x 10 ⁻⁶ 142 x 10 ⁻⁶	3.5 hours	1 year	
	H70E	Two	Grey/Grey	175°C – 1 min 80°C – 90 mins	4,000-7,000 cPs @ 50 rpm	≥80°C	≥10 kg/3,400 psi	N/A	N/A	451°C	15 x 10 ⁻⁶ 64 x 10 ⁻⁶	56 hours	1 year	
	H77	Two	Grey/Grey	150°C – 1 hour	6,000-12,000 cPs @ 20 rpm	>80°C	>5 kg/1,700 psi	N/A	N/A	405°C	33 x 10 ⁻⁶ 130 x 10 ⁻⁶	6 hours	1 year	

N/A - not applicable, as these are filled systems



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