



Potting Compounds are an effective way to encapsulate parts and protect sensitive devices from environmental factors such as high temperatures, humidity and chemicals. Epoxy Technology provides these materials in two types: **optically clear** (without filler) and **thermally conductive** (containing filler).

EPO-TEK® optically clear potting compounds are low viscosity products with a low-exothermic chemistry, to allow for great flow around components as well as excellent self-leveling properties. These materials create a clear, void-free encapsulation for high visibility of encapsulated parts, even in larger volume applications.

EPO-TEK thermally conductive potting compounds incorporate a filler material to dissipate heat away from sensitive elements. An added benefit of filled systems is that they provide increased security for proprietary components beneath the potting.

	EPO-TEK	NO. of COMPONENTS	COLOR Before/After CURE (thin film)	CURE TEMPERATURE (minimal)	VISCOSITY @ 23°C	GLASS TRANSITION TEMPERATURE (Tg)	DIE SHEAR STRENGTH @ RT (80mil x 80mil)	INDEX OF REFRACTION (Nd)	SPECTRAL TRANSMISSION	TGA DEGRADATION TEMPERATURE	CTE Below Tg/ Above Tg (in/in/°C)	POT LIFE (@ room temp.)	SHELF LIFE (@ room temp.)
OPTICAL	301-2	Two	Clear/Colorless	80°C – 3 hours 23°C – 2 days	225-425 @ 100 rpm	>80°C	>15 kg/5,100 psi	1.5318	>99% @ 400-1200 nm >98% @ 1200-1600 nm	360°C	61 x 10 ⁻⁶ 180 x 10 ⁻⁶	8 hours	1 year
	301-2FL	Two	Clear/Colorless	80°C – 3 hours 23°C – 3 days	100-200 @ 100 rpm	>45°C	>10 kg/3,400 psi	1.5115	>99% @ 400-1000 nm >97% @ 1000-1600 nm	325°C	56 x 10 ⁻⁶ 211 x 10 ⁻⁶	10 hours	1 year
	377	Two	Amber/Dark Amber	150°C – 1 hour	150-300 @ 100 rpm	≥95°C	≥10 kg/3,400 psi	1.5195	> 99% @ 600 nm > 95% @ 1000-1500 nm	375°C	57 x 10 ⁻⁶ 210 x 10 ⁻⁶	24 hours	1 year
THERMAL	H77	Two	Grey/Grey	150°C – 1 hour	6,000-12,000 @ 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
	H77S	Two	Grey/Dark Grey	150°C – 1 hour	950 - 1,500 @20 rpm	≥80°C	≥15 kg/5,100 psi	N/A	N/A	432°C	39 x 10 ⁻⁶ 98 x 10 ⁻⁶	8 hours	1 year
	T905-BN3	Two	Grey/Grey	80°C – 2 hours	2,000-7,000 @ 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
	T7110	Two	Grey/Grey	150°C – 15 min 23°C – 3 days	1,400-2,200 @ 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
SMALL VOLUME	301	Two	Clear/Colorless	65°C – 1 hour 23°C – 24 hours	100-200 @ 100 rpm	>65°C	>10 kg/3,400 psi	1.5190	>98% @ 400-700 nm >97% @ 700-2500 nm	430°C	39 x 10 ⁻⁶ 98 x 10 ⁻⁶	1-2 hours	1 year
	302-3M	Two	Clear/Colorless	65°C – 3 hours 23°C – 24 hours	800-1,600 @ 100 rpm	≥55°C	≥10 kg/3,400 psi	1.5446	>95% @ 460-1620 nm	351°C	56 x 10 ⁻⁶ 193 x 10 ⁻⁶	1 hour	1 year
	509FM-1	Two	Black/Black	60°C – 2 hours 23°C – 1 day	400-1,000 @100 rpm	≥40°C	≥10 kg/3,400 psi	N/A	<5% @ 400-2500 nm	365°C	55 x 10 ⁻⁶ 191 x 10 ⁻⁶	20 mins	1 year
	H70E	Two	Grey/Grey	175°C – 1 min 80°C – 90 min	4,000-7,000 @ 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
	H70S	Two	Grey/Grey	175°C – 1 min 80°C – 90 min	1,300-1,800 @100 rpm	≥50°C	≥10 kg/3,400 psi	N/A	N/A	400°C	40 x 10 ⁻⁶ 190 x 10 ⁻⁶	3 days	1 year

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



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