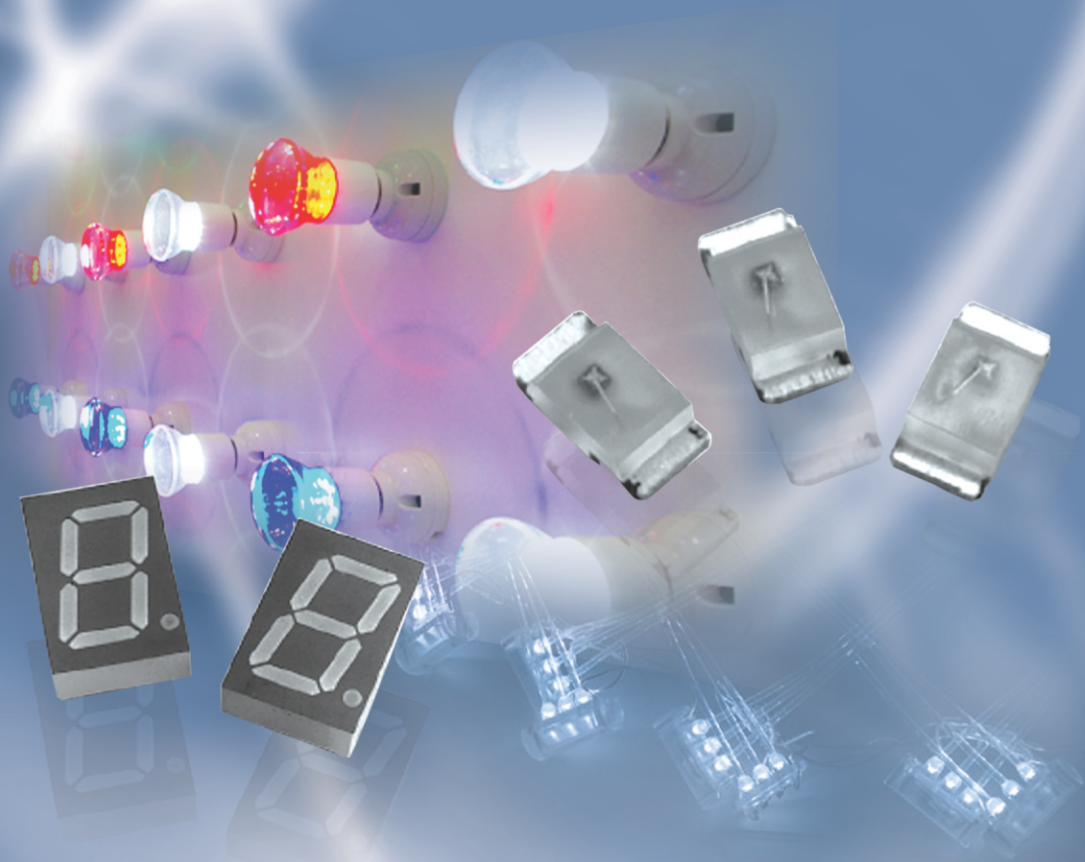


Composite Materials

for LED lamp and Display



To meet the Market Needs



Casting Compound for LED lamps and Display

- Good workability due to low viscosity
- Excellent adhesive strength with PCB and lead frame

Other products

- Insulation Varnish / Cast Molding / TGFR PCB Ink / PMP Starter Motor Coating etc.

We provide on extensive lineup of products to customers in various industries.



Main Office : 7-16 Songdo -Dong, Yeonsu-Gu, Incheon Korea
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LED lamp and Display

LER-420 is a fast curing polymer for casting LED devices. The mixed compound has a low viscosity enough to cast at room temperature and becomes gel in a short time above 120°C
The casting has transparency, low moisture absorption and high mechanical strength.

Casting Compound for Led lamps

Model : LER-420

General Characteristics

- Good workability
- Excellent adhesive strength with PCB and frame
- Tough to soldered reflow process even after humidity
- Long pot life
- Moisture resistance and high mechanical strength
- Excellent mechanical properties and electrical properties
- Standard LED, Infrared LED lamp and chip LED

Application

Chip LEDs for Automotive



ITEM		UNIT	LER-420 (Part-A)	LER-420 (Part-B)	REMARK
General characteristics	Appearance	-	Clear liquid	Yellow liquid	-
	Viscosity	cps, at25°C	5,000	90	BH type Viscometer
	Density	at25°C	1.17	1.15	-
	Volatility	wt%	non		-
Working condition	Mixing ratio	wt%	100 / 100		-
	Mixed viscosity	cps, at25°C	500		BH type Viscometer
	Gel time	min	2		1cc Scale
	Pot life	at25°C	8hr		-
	Cure condition	120°CX3hr, 150°CX2hr			Oven
Properties after cure	Hardness	-	85		Shore-D
	Tg	°C	63		TMA
	CTE	< Tg	6.2X10 ⁻⁵ /°C		"
		> Tg	18.1X10 ⁻⁵ /°C		"
	Flexural strength	Mpa	170		JIS-6911
	Flexural elastic modulus	Mpa	2,500		"
	Boiling water absorption	wt%	0.3		"
Volume resistivity	Ωcm	2-5X10 ¹⁵		"	



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