

CHEMLINQ TC-8060



Clear Optical molding compound

- LED Encapsulation
- Outdoor applications
- Low blue ray decay

TC-8060 is a high-performance optical solid epoxy specifically developed for white decorative and backlight LED encapsulation. This monocomponent epoxy achieves superior adhesion performance and great transmittance. Its stability at high temperature aids towards a good package performance and long life. It is a low stress, heat resistant epoxy with low stress hardeners that has been designed around its warpage and moisture capabilities.

TC-8060 is able to offer low blue-ray decay for outdoor LED applications and overall great light performance. This anti yellowing white epoxy is very close to competitive solutions such as XX814, XX1000 and XX97.

Specifications

Property	Value	Unit
Specific Gravity	1.3	-
Spiral flow	150 - 250	cm
Gel Time	20 - 45	sec
Hardness	86	Shore D
Glass Transition temperature	160	°C
CTE alpha 1	75	ppm/°C
CTE alpha 2	176	ppm/°C
Flexural Strength	110	N/mm ²
Flexural Modulus	3100	N/mm ²
Transmittance @450nm	>86	%
Refractive Index @589nm	1.52	-
Property	Value	Unit
Preheat Temperature	40 - 80	°C
Mold Temperature	140 - 160	°C
Transfer pressure	10 - 40	kgf/cm ²
Transfer Time	20 - 50	Sec
Curing Time	3 - 5	Min
Post Mold Curing	4 - 6	Hours

Storage and Handling

Store in a ventilated, dry, and clean environment below 5°C.

The product must be thawed at Room temperature for 16-24 hours and used within 24 hours after thawing. Under proper storage conditions, the compound has a shelf life of at least 6 months.

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