LCP SUMIKASUPER E6006

Sumitomo Chemical

Reference catalog 2026 - Upgraded Template

Resin Overview (Upgraded Template)

LCP · 液晶聚合物 (Upgraded)

This Grade

Manufacturer	Sumitomo Chemical
Category	LCP · 液晶聚合物 (Upgraded)
Typical Use	Reference grade for 液晶聚合物 (Upgraded)

Key Properties (8 metrics)

Density	1.65 g/cm3
Tensile Strength at Break	160 MPa
Tensile Modulus	14000 MPa
Elongation at Break	2.0%
HDT (1.8 MPa)	270 °C
Dk (1 GHz)	3.4
Df (1 GHz)	0.015
UL 94 Rating	V-0 @ 0.75mm

Key Features

- High flow for thin-wall connectors
- Lead-free reflow compatible
- Low Df for high-speed signal
- UL 94 V-0 flame retardant

Processing Conditions

Melt Temperature	290-330 °C
Mold Temperature	70-130 °C

Drying	4 h @ 150 °C in desiccant dryer
Processing Methods	Injection molding

Typical Applications

- SMT connectors
- Camera module components
- High-frequency sockets
- mmWave antenna substrates

Regulatory & Compliance

- RoHS compliant
- REACH registered
- FDA food contact grades available

> Data from public manufacturer catalogs. Verify before procurement.

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