LCP

Sumikasuper® SZ6505

Sumitomo Chemical

Position #106 • Jinsutong Reference Catalog 2026

Resin Overview

LCP · Ultra-High Flow, Thin Wall. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	Sumitomo Chemical
Category	LCP · Ultra-High Flow, Thin Wall
Typical Use	Ultra-thin-wall SMT connectors, 0.10mm wall

Key Properties

Density	1.55 g/cm³
Tensile Strength at Break	140 MPa
Tensile Modulus	11000 MPa
Elongation at Break	2.5%
HDT (1.8 MPa)	245 °C
Dk (1 GHz)	3.0
Df (1 GHz)	0.006
Spiral Flow (320°C)	Very long

Key Features

- Ultra-high flow for 0.1mm wall
- Lowest Df (0.006) for signal integrity
- Lead-free reflow compatible
- Suitable for smartphone SMT

Processing Conditions

Melt Temperature	280-310 °C

Mold Temperature	60-100 °C
Drying	4 h @ 150 °C in desiccant dryer
Processing Methods	Injection molding

Typical Applications

- Ultra-thin-wall SMT connectors
- Smartphone camera module connectors
- mmWave antenna components
- High-frequency sockets

Regulatory & Compliance

- UL 94 V-0
- RoHS compliant

> ⚠ All data sourced from public manufacturer catalogs.

Contact
Mr. Mo Hailong · +86 138 1603 7020 · 13816037020@139.com

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