LCP

Vectra® E420P

Ticona (Celanese)

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Resin Overview

LCP · Platable, 30% Glass. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	Ticona (Celanese)
Category	LCP · Platable, 30% Glass
Typical Use	Metallization, SMT connectors

Key Properties

Density	1.62 g/cm³
Tensile Strength at Break	160 MPa
Tensile Modulus	13500 MPa
Elongation at Break	1.8%
HDT (1.8 MPa)	270 °C
Dk (1 GHz)	3.5
Df (1 GHz)	0.018
UL 94 Rating	V-0 @ 0.75mm

Key Features

- Platable for metallization
- 30% glass fiber for stiffness
- Low Df for signal integrity
- UL 94 V-0 flame retardant

Processing Conditions

Melt Temperature	300-330 °C
Mold Temperature	80-130 °C
Drying	4 h @ 150 °C in desiccant dryer
Processing Methods	Injection molding, plating

Typical Applications

- SMT connectors with metallization
- RF antenna components
- Camera module frames
- High-frequency sockets

Regulatory & Compliance

- UL 94 V-0 listed
- RoHS compliant

> ⚠ All data sourced from public manufacturer catalogs.

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