

THERMX[®] LED 0201

High reflectance and thermal stability

Thermx LED 0201 is a super white reinforced PCT resin highly suitable for LED applications. The material exhibits high heat resistance, high reflectance stability, high thermal stability, low moisture absorption, and high mechanical properties for injection molding.

Rheological properties

Moulding shrinkage range, parallel	0.3 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.9 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	6270 MPa	ISO 527-1/-2
Stress at break, 5mm/min	73 MPa	ISO 527-1/-2
Strain at break, 5mm/min	1.7 %	ISO 527-1/-2
Charpy impact strength, 23°C	32 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	3.2 kJ/m ²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	285 °C	ISO 11357-1/-3
Coeff. of linear therm. expansion, parallel	32 E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	102 E-6/K	ISO 11359-1/-2

Other properties

Density	1620 kg/m ³	ISO 1183
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Injection

Drying Temperature	95 - 100 °C
Drying Time, Dehumidified Dryer	4 - 6 h
Processing Moisture Content	0.03 %
Max. mould temperature	100 - 150 °C

