

THERMX[®] LED 0201

PCT

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.

Product information

Resin Identification	PCT-(GF+X)40	ISO 1043
Part Marking Code	>PCT-(GF+X)40<	ISO 11469

Rheological properties

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

Typical mechanical properties

Tensile modulus	6270 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	73 MPa	ISO 527-1/-2
Tensile 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
Poisson's ratio	0.35 ^[C]	

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	285 °C	ISO 11357-1/-3
Coefficient of linear thermal expansion (CLTE), parallel	32 E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	102 E-6/K	ISO 11359-1/-2

Physical/Other properties

Density	1620 kg/m ³	ISO 1183
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Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	Chemical resistant