

THERMX[®] TE3002

PCT

Thermx[®] TE3002 is a 30% glass fiber reinforced, flame retardant, black high performance polyester resin for injection molding.

Product information

Resin Identification	PCT-GF30	ISO 1043
Part Marking Code	>PCT-GF30<	ISO 11469

Typical mechanical properties

Tensile modulus	10000 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	100 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.2 %	ISO 527-1/-2
Flexural modulus	10500 MPa	ISO 178
Flexural strength	150 MPa	ISO 178
Charpy impact strength, 23°C	20 kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	21 ^[OT] kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	7 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	7 ^[OT] kJ/m ²	ISO 179/1eA
Poisson's ratio	0.34 ^[C]	

[OT]: One time tested

[C]: Calculated

Thermal properties

Temperature of deflection under load, 1.8 MPa	240 °C	ISO 75-1/-2
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Flammability

Burning Behav. at thickness h	V-0 class	IEC 60695-11-10
Thickness tested	0.79 mm	IEC 60695-11-10
UL recognition	yes	UL 94

Electrical properties

Electric strength	34 ^[OT] kV/mm	IEC 60243-1
[OT]: One time tested		

Physical/Other properties

Density	1650 kg/m ³	ISO 1183
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Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	Flame retardant, Chemical resistant