

THERMX® TE3002

30% glass fiber reinforced, flame retardant

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

Typical mechanical properties

Tensile Modulus	10000 MPa	ISO 527-1/-2
Stress at break, 5mm/min	100 MPa	ISO 527-1/-2
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 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 kJ/m ²	ISO 179/1eA

Thermal properties

Temp. 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	UL 94
Thickness tested	0.79 mm	UL 94
UL recognition	yes	UL 94

Electrical properties

Electric strength	34 kV/mm	IEC 60243-1
Comparative tracking index	PLC 1 PLC	UL 746A

Other properties

Density	1650 kg/m ³	ISO 1183
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Injection

Drying Temperature	95 °C
Drying Time, Dehumidified Dryer	4 - 6 h
Processing Moisture Content	0.03 %
Max. mould temperature	80 - 120 °C

