

CELANEX® 6500HF

30% glass-fiber / mineral filled PBT+PET blend; high flow; low warpage grade

6500HF is a high flow, 30% glass/mineral filled polybutylene terephthalate (PBT) with improved warp resistance and surface smoothness.

Product information

Part Marking Code	(PBT+PET)-(GF+MD)30	ISO 11469
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Rheological properties

Melt mass-flow rate	42 g/10min	ISO 1133
Melt mass-flow rate, Temperature	265 °C	
Melt mass-flow rate, Load	2.16 kg	
Moulding shrinkage range, parallel	0 - 0.5 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.5 - 0.8 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	9700 MPa	ISO 527-1/-2
Stress at break, 5mm/min	125 MPa	ISO 527-1/-2
Strain at break, 5mm/min	2.2 %	ISO 527-1/-2
Flexural Modulus	9500 MPa	ISO 178
Flexural Strength	180 MPa	ISO 178
Charpy impact strength, 23°C	27 kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	24 kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	6.7 kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	7.2 kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	5.3 kJ/m²	ISO 180/1A
Hardness, Rockwell, M-scale	91	ISO 2039-2
Shore D hardness, 15s	85	ISO 48-4 / ISO 868

Thermal properties

Melting temperature, 10°C/min	225 °C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	54 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	202 °C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	223 °C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	28 E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	85 E-6/K	ISO 11359-1/-2

Electrical properties

Relative permittivity, 100Hz	3.3	IEC 62631-2-1
Relative permittivity, 1MHz	3.1	IEC 62631-2-1
Dissipation factor, 1MHz	120 E-4	IEC 62631-2-1
Volume resistivity	1E14 Ohm.m	IEC 62631-3-1
Surface resistivity	6E16 Ohm	IEC 62631-3-2
Electric strength	31 kV/mm	IEC 60243-1

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Comparative tracking index

PLC 2 PLC

UL 746A

Other properties

Humidity absorption, 2mm

0.19 %

Sim. to ISO 62

Density

1550 kg/m³

ISO 1183

Injection

Drying Temperature

120 - 130 °C

Drying Time, Dehumidified Dryer

4 h

Processing Moisture Content

0.02 %

Max. mould temperature

65 - 96 °C

Injection speed

medium-fast
