

KEPITAL® FC2010

A high-stiffness grade reinforced with carbon fiber

- Carbon fiber reinforced
- High stiffness

Rheological properties

Moulding shrinkage, parallel	0.7 %	ISO 294-4, 2577
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Typical mechanical properties

Tensile Modulus	10000 MPa	ISO 527-1/-2
Stress at break, 5mm/min	125 MPa	ISO 527-1/-2
Nominal strain at break	1.2 %	ISO 527-1/-2
Flexural Modulus	8500 MPa	ISO 178
Flexural Strength	200 MPa	ISO 178
Charpy notched impact strength, 23°C	4 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30 °C	4 kJ/m ²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	165 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	160 °C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	20 E-6/K	ISO 11359-1/-2

Electrical properties

Surface resistivity	100000 Ohm	IEC 62631-3-2
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Other properties

Water absorption, 2mm	0.2 %	Sim. to ISO 62
Density	1430 kg/m ³	ISO 1183

Processing Texts

Pre-drying

Being a non-hygroscopic material, KEPITAL® in its original packages can be processed without pre-drying unless it is exposed to a humid atmosphere for a prolonged periods of time. However, sometimes moisture that exists on the surface of pellet caused by improper handling or storage may result in a silver streak or nozzle drooling, so drying prior to molding may be necessary to prevent KEPITAL® from having these problems. In addition, in some cases, pre-drying is effective in reducing odor, mold deposits and in achieving improved surface appearance quality. Drying conditions are recommended at 80-90 °C for 3-4 hours.

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