

CELSTRAN® PA6-CF40-01

Celstran® PA6-CF40-01 is a 40% long Carbon fiber Polyamide. This material imparts excellent impact and modulus properties that exceed that of short fiber PA6.

Typical mechanical properties

Tensile Modulus	29000 MPa	ISO 527-1/-2
Stress at break, 5mm/min	310 MPa	ISO 527-1/-2
Strain at break, 5mm/min	1.3 %	ISO 527-1/-2
Flexural Modulus	26500 MPa	ISO 178
Flexural Strength	460 MPa	ISO 178
Charpy impact strength, 23°C	73 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	26 kJ/m ²	ISO 179/1eA

Other properties

Density	1310 kg/m ³	ISO 1183
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Injection

Drying Temperature	80 °C
Drying Time, Dehumidified Dryer	4 - 6 h
Processing Moisture Content	0.02 %
Max. mould temperature	85 - 105 °C

Processing Texts

Pre-drying	Up to 5-10% of clean, properly dried regrind may be blended with virgin Celstran resin.
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