

CELSTRAN® PA66-CF40-02 AF3004 Natural

The Celstran PA66-CF40-02 is a long carbon fiber Nylon 66. This material imparts excellent impact and extremely high flexural properties.

Celstran® PA66-CF40-02 is a 40% long **carbon fiber** 66 polyamid. This material imparts excellent impact and extremely high modulus properties that exceed that of short carbon fiber PA66. High heat distortion temperatures and good chemical resistance makes Celstran PA66 the perfect product for metal replacement applications

Typical mechanical properties

Tensile Modulus	30860 MPa	ISO 527-1/-2
Stress at break, 5mm/min	294 MPa	ISO 527-1/-2
Strain at break, 5mm/min	1 %	ISO 527-1/-2
Flexural Modulus	26000 MPa	ISO 178
Flexural Strength	455 MPa	ISO 178
Charpy notched impact strength, 23°C	23 kJ/m ²	ISO 179/1eA

Thermal properties

Temp. of deflection under load, 1.8 MPa	260 °C	ISO 75-1/-2
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Other properties

Density	1340 kg/m ³	ISO 1183
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Injection

Drying Temperature	70 - 80 °C	
Drying Time, Dehumidified Dryer	2 - 4 h	
Processing Moisture Content	0.18 %	
Melt Temperature Optimum	315 °C	Internal
Max. mould temperature	80 - 100 °C	

Processing Texts

Pre-drying CELSTRAN PA should in principle be predried. Because of the necessary low maximum residual moisture content the use of dry air dryers is recommended. The dew point should be =< -30°C. The time between drying and processing should be as short as possible.

Longer pre-drying times/storage Note: Material can be over dried and may discolor.

