

# CELSTRAN® PPS-GF40-02 AD3002 BLACK

## CELSTRAN® Long Fibre

40% long strand fiber glass reinforced polyphenylene sulfide

### Product information

Resin Identification	PPS-LGF40	ISO 1043
Part Marking Code	>PPS-LGF40<	ISO 11469

### Typical mechanical properties

Tensile modulus	14800 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	165 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.3 %	ISO 527-1/-2
Flexural modulus	14300 MPa	ISO 178
Flexural strength	260 MPa	ISO 178
Charpy impact strength, 23°C	40 kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	23 kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.33 <sup>[C]</sup>	
[C]: Calculated		

### Thermal properties

Temperature of deflection under load, 1.8 MPa	270 °C	ISO 75-1/-2
Temperature of deflection under load, 8 MPa	240 °C	ISO 75-1/-2

### Physical/Other properties

Density	1620 kg/m <sup>3</sup>	ISO 1183
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### Injection

Ejection temperature	211 °C
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### Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	Heat stabilised or stable to heat

### Additional information

Processing Notes

#### Pre-Drying

FORTRON 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  $\leq -30^{\circ}\text{C}$ . The time between drying and processing should be as short as possible.

#### Storage

For subsequent storage the material should be stored dry in the dryer until processed ( $\leq 60$  h).

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