Celanese
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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/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	23	kJ/m²	ISO 179/1eA
Poisson's ratio	0.33[C]		

[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/m³	ISO 1183

Injection

Ejection temperature	211	°C

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 =< -30°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 (<= 60 h).

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