

CELSTRAN® PPS-GF50-01 AF3001 NATURAL

CELSTRAN® Long Fibre

50% long strand glass fiber reinforced polyphenylene sulfide.

Product information

Resin Identification	PPS-LGF50	ISO 1043
Part Marking Code	>PPS-LGF50<	ISO 11469

Typical mechanical properties

Tensile modulus	18600 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	173 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.1 %	ISO 527-1/-2
Flexural modulus	17900 MPa	ISO 178
Flexural strength	290 MPa	ISO 178
Charpy notched impact strength, 23 °C	33.4 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.33 ^[C]	

[C]: Calculated

Thermal properties

Melting temperature, 10 °C/min	279 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	280 °C	ISO 75-1/-2

Physical/Other properties

Density	1720 kg/m ³	ISO 1183
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Injection

Back pressure	3 MPa
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Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Additives	Flame retardant
Special characteristics	Flame retardant

Additional information

Processing Notes

Pre-Drying

CELSTAN PPS 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).