Celanese
The chemistry inside innovation™

CELSTRAN® PPS-GF50-01 AD3002 Black

50% long strand glass fiber reinforced polyphenylene sulfide. UL-V0 flame retardant.
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Typical mechanical properties

Tensile Modulus	19000	MPa	ISO 527-1/-2
Stress at break, 5mm/min	165	MPa	ISO 527-1/-2
Strain at break, 5mm/min	1	%	ISO 527-1/-2
Flexural Modulus	18600	MPa	ISO 178
Flexural Strength	280	MPa	ISO 178
Charpy notched impact strength, 23 °C	28	kJ/m²	ISO 179/1eA

Thermal properties

Temp. of deflection under load, 1.8 MPa	282	°C	ISO 75-1/-2

Other properties

Density	1720	kg/m³	ISO 1183

Injection

Drying Temperature	130 - 140	°C
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	0.02	%
Max. mould temperature	140 - 160	°C

Processing Texts

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.
Longer pre-drying times/storage	For subsequent storage the material should be stored dry in the dryer until processed (<= 60 h).