CELSTRAN® PPS-GF40-01 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	2.3E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	22500	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.1	%	ISO 527-1/-2
Flexural modulus	2.16E6	psi	ISO 178
Flexural strength	36000	psi	ISO 178
Charpy notched impact strength, 23°C	10.5	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23°C	16.3	ftlb/in²	ISO 180/1A
Izod impact strength, -40°C	16.3	ftlb/in²	ISO 180/1U

Physical/Other properties

Density	0.0585	lb/in³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	284	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.02	%
Melt Temperature Optimum	599	°F
Min. melt temperature	563	°F
Max. melt temperature	635	°F
Max. screw tangential speed	0.1 - 0.2	m/s
Mold Temperature Optimum	302	°F
Min. mold temperature	284	°F
Max. mold temperature	320	°F

Characteristics

Processing	Injection Molding
Special characteristics	Heat stabilized 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

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For subsequent storage the material should be stored dry in the dryer until processed (<= 60 h).

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