

FORTRON® 1115L0 - PPS

Description

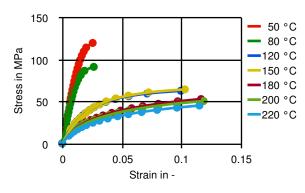
Fortron® 1115L0 is a 15% fiberglass-reinforced grade of polyphenylene sulfide with high melt strength suitable for blow molding and extrusion applications. The recommended processing conditions are similar to those of our standard grades, except drying conditions are somewhat milder at 80 to 100 C for 3-4 hours.

Physical properties	Value	Unit	Test Standard
Density	1440	kg/m³	ISO 1183
Water absorption, 23°C-sat	0.02	%	ISO 62
Mechanical properties	Value	Unit	Test Standard
Tensile modulus	7700	MPa	ISO 527-2/1A
Tensile stress at break, 5mm/min	120	MPa	ISO 527-2/1A
Tensile strain at break, 5mm/min	2	%	ISO 527-2/1A
Flexural modulus, 23°C	7500	MPa	ISO 178
Flexural strength, 23°C	200	MPa	ISO 178
Charpy impact strength, 23°C	32	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	5	kJ/m²	ISO 179/1eA
Izod impact notched, 23°C	5.2	kJ/m²	ISO 180/1A
Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	220	°C	ISO 75-1, -2
DTUL at 8.0 MPa	115	°C	ISO 75-1, -2
Flammability at thickness h	V-0	class	UL 94
thickness tested (h)	0.75	mm	UL 94
Electrical properties	Value	Unit	Test Standard
Surface resistivity	>1E15	Ohm	IEC 60093

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Diagrams

True Stress-strain



Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Necessary low maximum residual moisture content	0.02	%	-
Drying time	3 - 4	h	-
Drying temperature	100 - 140	°C	-
Temperature	Value	Unit	Test Standard
Hopper temperature	20 - 30	°C	-
Feeding zone temperature	60 - 80	°C	-
Zone1 temperature	290 - 300	°C	-
Zone2 temperature	310 - 320	°C	-
Zone3 temperature	330 - 340	°C	-
Zone4 temperature	330 - 340	°C	-
Nozzle temperature	310 - 330	°C	-
Melt temperature	330 - 340	°C	-
Mold temperature	140 - 160	°C	-
Hot runner temperature	330 - 340	°C	-
Pressure	Value	Unit	Test Standard
Back pressure max.	30	bar	-
Speed	Value	Unit	Test Standard
Injection speed	fast	-	-
Screw Speed	Value	Unit	Test Standard
Screw speed diameter, 25mm	120	RPM	-
Screw speed diameter, 40mm	75	RPM	-
Screw speed diameter, 55mm	50	RPM	-

Other text information

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 $= -30^{\circ}$ 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).

Characteristics	
Product Categories	
Specialty	
Contact Information	

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General Disclaimer

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