

## FORTRON® 1115L0 | PPS | Specialty

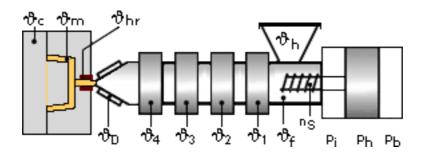
### **Description**

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 (1mm/min)	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	32.0	kJ/m²	ISO 179/1eU
Charpy notched impact strength @ 23°C	5.0	kJ/m²	ISO 179/1eA
Notched impact strength (Izod) @ 23°C	5.2	kJ/m²	ISO 180/1A
Thermal properties	Value	Unit	Test Standard
DTUL @ 1.8 MPa	220	°C	ISO 75-1/-2
DTUL @ 8.0 MPa	115	°C	ISO 75-1/-2
Electrical properties	Value	Unit	Test Standard
Surface resistivity	>1E15	Ohm	IEC 60093

#### Typical injection moulding processing conditions



### Pre Drying:

#### Necessary low maximum residual moisture content: 0.02%

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.

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



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Drying time: 3 - 4 h

Drying temperature: 80 - 100 °C

Temperature:

•	<sup>∜</sup> Manifold	<sup>®</sup> Mold	<sup></sup> ∂Melt	<sup>∜</sup> Nozzle	<sup>∜</sup> Zone4	<sup>®</sup> Zone3	<sup>₺</sup> Zone2	<sup>∜</sup> Zone1	<sup>∜</sup> Feed	<sup>∜</sup> Hopper
min (°C)	330	140	330	310	330	330	310	290	60	20
max (°C)	340	160	340	330	340	340	320	300	80	30

Pressure:

	Inj press	Hold press	Back pressure
min (bar)	500	300	0
max (bar)	1000	700	30

Speed:

Injection speed: fast

Screw speed

Screw diameter (mm)	16	25	40	55	75	
Screw speed (RPM)	-	120	75	50	-	

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Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use.

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We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed (+49 (0) 69 30516299 for Europe, +1 859-372-3244 for the Americas and +86 21 3861 9266 for Asia) for additional technical information. Visit our web site for the appropriate Safety Data Sheets (SDS) before attempting to process our products. Feel free to call Customer Services for additional assistance.

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