

## FORTRON® 9115L0 - PPS

### Description

Fiberglass reinforced with high melt strength for blow molding & extrusion applications

Fortron® 9115L0 is a 15% fiberglass-reinforced grade of polyphenylene sulfide with high melt strength suitable for blow molding and extrusion applications.

Physical properties	Value	Unit	Test Standard
Density	89.9	lb/ft³	ISO 1183
Water absorption, 23°C-sat	0.02	%	Sim. to ISO 62
Mechanical properties	Value	Unit	Test Standard
Tensile modulus	1.12E6	psi	ISO 527-1, -2
Tensile stress at break, 5mm/min	17400	psi	ISO 527-1, -2
Tensile strain at break, 5mm/min	2	%	ISO 527-1, -2
Flexural modulus, 23°C	1.09E6	psi	ISO 178
Flexural strength, 23°C	29000	psi	ISO 178
Charpy impact strength, 23°C	15.2	ft-lb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	2.38	ft-lb/in²	ISO 179/1eA
Izod impact notched, 23°C	2.47	ft-lb/in²	ISO 180/1A
Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	428	°F	ISO 75-1, -2
DTUL at 8.0 MPa	239	°F	ISO 75-1, -2
Flammability at thickness h thickness tested (h)	V-0 0.0295	class in	UL 94 UL 94
Electrical properties	Value	Unit	Test Standard
Surface resistivity, 23°C	>1E15	Ohm	IEC 62631-3-2
Comparative tracking index	PLC 3	-	UL 746

### Typical injection moulding processing conditions

Pre Drying	Value	Unit
Necessary low maximum residual moisture content	0.02	%
Drying time	3 - 4	h
Drying temperature	212 - 284	°F
Temperature	Value	Unit
Hopper temperature	68 - 86	°F
Feeding zone temperature	140 - 176	°F
Zone1 temperature	554 - 572	°F
Zone2 temperature	590 - 608	°F
Zone3 temperature	626 - 644	°F
Zone4 temperature	626 - 644	°F
Nozzle temperature	590 - 626	°F
Melt temperature	626 - 644	°F
Mold temperature	284 - 320	°F
Hot runner temperature	626 - 644	°F
Pressure	Value	Unit
Back pressure max.	30	bar



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<b>Speed</b>	<b>Value</b>	
Injection speed	fast	
<b>Screw Speed</b>	<b>Value</b>	<b>Unit</b>
Screw speed diameter, 25mm	120	RPM
Screw speed diameter, 40mm	75	RPM
Screw speed diameter, 55mm	50	RPM

### **Other text information**

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#### **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**

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

### **Characteristics**

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<b>Special Characteristics</b>	Flame retardant
<b>Product Categories</b>	Specialty
<b>Processing</b>	Blow molding, Extrusion
<b>Regulatory</b>	Drinking water approved

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