

## FORTRON® 9115L0 - PPS

### Description

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	1440	kg/m <sup>3</sup>	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/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	5	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact notched, 23°C	5.2	kJ/m <sup>2</sup>	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

### 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

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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  $\leq -30^{\circ}\text{C}$ . 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 ( $\leq 60$  h).

### Characteristics

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#### Product Categories

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Specialty

#### Contact Information

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### General Disclaimer

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