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# FORTRON® 9115L0

## Polyphenylene sulfide

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

## Product information

| | | |
|---|---|---|
| Resin Identification | PPS-GF15 | ISO 1043 |
| Part Marking Code | >PPS-GF15< | ISO 11469 |

## Typical mechanical properties

| | | | |
|---|---|---|---|
| Tensile modulus | 7700 | MPa | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min | 120 | MPa | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min | 2 | % | ISO 527-1/-2 |
| Flexural modulus | 7500 | MPa | ISO 178 |
| Flexural strength | 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 notched impact strength, 23°C | 5.2 | kJ/m² | ISO 180/1A |
| Poisson's ratio | 0.34[C] | | |

[C]: Calculated

## Thermal properties

| | | | |
|---|---|---|---|
| Temperature of deflection under load, 1.8 MPa | 220 | °C | ISO 75-1/-2 |
| Temperature of deflection under load, 8 MPa | 115 | °C | ISO 75-1/-2 |

## Flammability

| | | | |
|---|---|---|---|
| Burning Behav. at thickness h | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 0.75 | mm | IEC 60695-11-10 |

## Electrical properties

| | | | |
|---|---|---|---|
| Surface resistivity | >1E15 | Ohm | IEC 62631-3-2 |

## Physical/Other properties

| | | | |
|---|---|---|---|
| Water absorption, 2mm | 0.02 | % | Sim. to ISO 62 |
| Density | 1440 | kg/m³ | ISO 1183 |

## Injection

| | | |
|---|---|---|
| Drying Recommended | yes | |
| Drying Temperature | 130 | °C |
| Drying Time, Dehumidified Dryer | 2 - 4 | h |
| Processing Moisture Content | ≤0.02 | % |
| Melt Temperature Optimum | 330 | °C |
| Min. melt temperature | 310 | °C |
| Max. melt temperature | 340 | °C |
| Screw tangential speed | 0.2 - 0.3 | m/s |
| Mold Temperature Optimum | 150 | °C |
| Min. mould temperature | 140 | °C |
| Max. mould temperature | 160 | °C |

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| | |
|---|---|
| Hold pressure range | 30 - 70 MPa |
| Back pressure | 3 MPa |

## Characteristics

| | |
|---|---|
| Processing | Injection Moulding, Extrusion, Blow Moulding |
| Special characteristics | Flame retardant |

## 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

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



Revised: 2024-06-13 Source: Celanese Materials Database