

FORTRON® 1140L0

Polyphenylene sulfide

Fortron 1140L0 is a 40% glass-reinforced extrusion grade. It exhibits excellent heat and chemical resistance, good electrical properties and is inherently flame-retardant. The high hardness and rigidity at elevated temperatures allows for good load bearing performance. This product has good weldability due to the modest filler level. 1140L0 is used to produce rods and slabs.

Product information

PPS-GF40 >PPS-GF40<		ISO 1043 ISO 11469
180	MPa	ISO 527-1/-2
1.8	%	ISO 527-1/-2
14000	MPa	ISO 178
280	MPa	ISO 178
		ISO 179/1eA
10	kJ/m²	ISO 179/1eA
280	°C	ISO 11357-1/-3
		ISO 11357-1/-3
V-0	class	IEC 60695-11-10
1.5	mm	IEC 60695-11-10
		IEC 60695-11-10
0.38	mm	IEC 60695-11-10
0.02	%	Sim. to ISO 62
1650	kg/m³	ISO 1183
ves		
-	°C	
	>PPS-GF40< 180 1.8 14000 280 10 10 V-0 1.5 V-0 0.38 0.02 1650 yes	>PPS-GF40< 180 MPa 1.8 % 14000 MPa 280 MPa 10 kJ/m² 10 kJ/m² 10 kJ/m² V-0 class 1.5 mm V-0 class 0.38 mm 0.02 % 1650 kg/m³

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2-4 h

≤0.02 % 330 °C

310 °C

340 °C

150 °C

140 °C 160 °C

30 - 70 MPa

3 MPa

0.2 - 0.3 m/s

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

Drying Time, Dehumidified Dryer

Processing Moisture Content

Melt Temperature Optimum

Mold Temperature Optimum

Min. melt temperature Max. melt temperature

Screw tangential speed

Min. mould temperature

Max. mould temperature Hold pressure range

Back pressure



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Characteristics

Additives Release agent

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).

Processing Notes

The higher drying conditions result in higher melt viscosity.

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