

Polyphenylene sulfide

Fortron 1200L1 is an unfilled grade recommended primarily for extrusion applications. It has a high melt viscosity and tensile elongation. Recommended processing conditions are similar to those of our standard unfilled PPS grades.

Product information			
Resin Identification Part Marking Code	PPS >PPS<		ISO 1043 ISO 11469
Rheological properties			
Moulding shrinkage, parallel Moulding shrinkage, normal	1.3 1.6		ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus Tensile strain at yield, 50mm/min Tensile stress at break, 50mm/min Tensile strain at break, 50mm/min Flexural modulus Flexural strength Charpy impact strength, 23°C Hardness, Rockwell, M-scale Poisson's ratio [C]: Calculated	88 15 4100 140	% MPa %	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eU ISO 2039-2
Thermal properties			
Melting temperature, 10°C/min Glass transition temperature, 10°C/min Temperature of deflection under load, 1.8 MPa Temperature of deflection under load, 8 MPa Coefficient of linear thermal expansion (CLTE), parallel Coefficient of linear thermal expansion (CLTE), normal [1]: FO 1200L1 SF3001 Natural (>PPS<)DTUL @ 1.8 & 8.0 MPa	100 ^[1] 87 ^[1] 40	°C	ISO 11357-1/-3 ISO 11357-1/-3 ISO 75-1/-2 ISO 75-1/-2 ISO 11359-1/-2
Flammability			
Burning Behav. at thickness h Thickness tested		class mm	IEC 60695-11-10 IEC 60695-11-10
Electrical properties			
Electric strength	30	kV/mm	IEC 60243-1
Physical/Other properties			
Water absorption, 2mm Density	0.02 1340	% kg/m³	Sim. to ISO 62 ISO 1183

Printed: 2024-09-05 Page: 1 of 4

Revised: 2024-08-08 Source: Celanese Materials Database



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Injection

yes	
100	°C
2 - 4	h
≤0.02	%
330	°C
310	°C
340	°C
0.2 - 0.3	m/s
150	°C
140	°C
160	°C
30 - 70	MPa
	100 2 - 4 ≤0.02 330 310 340 0.2 - 0.3 150 140 160

Additional information

Processing Notes

Processing Notes

The higher drying conditions result in higher melt viscosity.

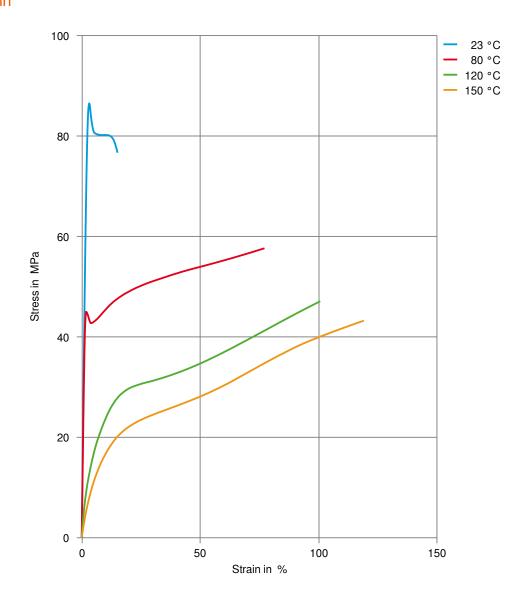
Printed: 2024-09-05 Page: 2 of 4

Revised: 2024-08-08 Source: Celanese Materials Database



Polyphenylene sulfide

Stress-strain

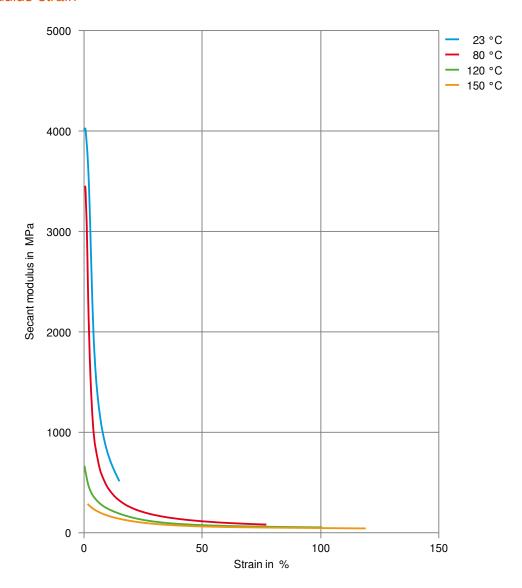


Printed: 2024-09-05 Page: 3 of 4



Polyphenylene sulfide

Secant modulus-strain



Printed: 2024-09-05 Page: 4 of 4

Revised: 2024-08-08 Source: Celanese Materials Database

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