

ISO 1183

FORTRON® 1130T4

Polyphenylene sulfide

Fortron® 1130T4 is a 30% glass filled, impact modified grade for injection molding with excellent thermal shock resistance.

Product information			
Resin Identification	PPS-I-GF30		ISO 1043
Part Marking Code	>PPS-I-GF30<		ISO 11469
Rheological properties			
Moulding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.7	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus	11000	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min		MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.3		ISO 527-1/-2
Flexural modulus	10000		ISO 178
Flexural strength		MPa	ISO 178
Charpy impact strength, 23°C Charpy notched impact strength, 23°C		kJ/m² kJ/m²	ISO 179/1eU ISO 179/1eA
Charpy notched impact strength, -30 °C		kJ/m ²	ISO 179/1eA
Hardness, Rockwell, M-scale	90	110/111	ISO 2039-2
Poisson's ratio	0.34 ^[C]		.55 255 2
[C]: Calculated			
Thermal properties			
Melting temperature, 10 ° C/min	280	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	90	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	260	°C	ISO 75-1/-2
Coefficient of linear thermal expansion	18	E-6/K	ISO 11359-1/-2
(CLTE), parallel		= - 4.4	
Coefficient of linear thermal expansion (CLTE),	56	E-6/K	ISO 11359-1/-2
normal Flammability			
Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested		mm	IEC 60695-11-10
Electrical properties			
Volume resistivity	>1E13	Ohm.m	IEC 62631-3-1
Surface resistivity	>1E15		IEC 62631-3-2
Electric strength	21	kV/mm	IEC 60243-1
Physical/Other properties			
Water absorption, 2mm	0.02	%	Sim. to ISO 62
Danath.	1510	1 / 3	100 1100

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1510 kg/m³

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Density



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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
3	MPa
217	°C
	100 2 - 4 ≤0.02 330 310 340 0.2 - 0.3 150 140 160 30 - 70 3

Characteristics

Processing Injection Moulding

Delivery form Pellets

Special characteristics High impact or impact modified, Thermal shock resistant

Automotive

OEM STANDARD

Chery Q/SQR S1-172-2023

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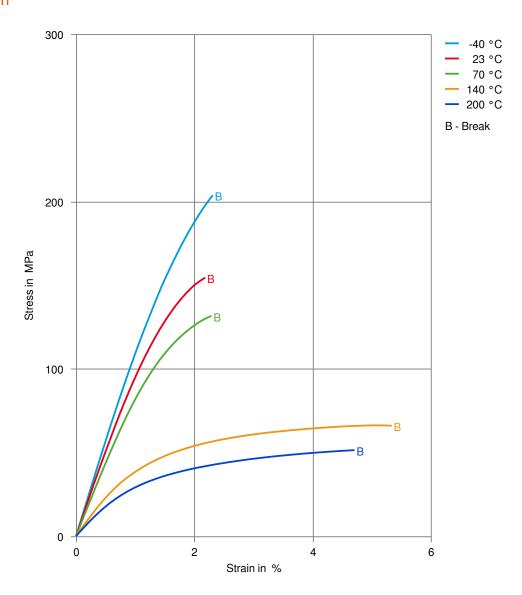
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Stress-strain



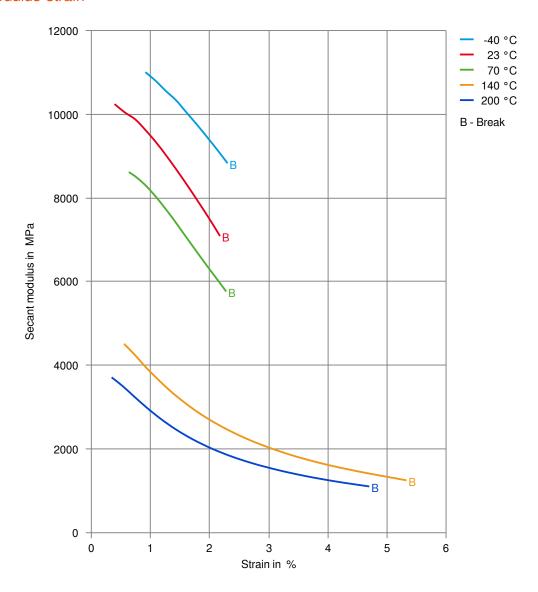
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Secant modulus-strain



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