

Polyphenylene sulfide

Fortron 6150T4 is a 50% glass-fiber reinforced and mineral-filled grade with improved impact and thermal shock resistance.

Product information		
Resin Identification	PPS-I-(GF+MD)50	ISO 1043
Part Marking Code	>PPS-I-(GF+MD)50<	ISO 11469

Rheological properties		
Moulding shrinkage, parallel	0.2 %	ISO 294-4, 2577
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Moulding shrinkage, normal	0.5 %	ISO 294-4, 2577
Typical mechanical properties		

Tensile modulus	16000	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	170	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.7	%	ISO 527-1/-2
Flexural modulus	15500	MPa	ISO 178
Flexural strength	260	MPa	ISO 178
Charpy impact strength, 23°C	50	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	_	kJ/m ²	ISO 179/1eA
Poisson's ratio	0.33 ^[C]		
[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	273 °C	ISO 75-1/-2
Coefficient of linear thermal expansion	12 E-6/K	ISO 11359-1/-2
(CLTE), parallel		
Coefficient of linear thermal expansion (CLTE),	40 E-6/K	ISO 11359-1/-2
normal		

Flammability

Burning Behav. at 1.5mm nom. thickn.	V-0 class	IEC 60695-11-10
Thickness tested	1.5 mm	IEC 60695-11-10
Glow Wire Flammability Index, 1.0mm	960 ^[OT, 1] °C	IEC 60695-2-12
Glow Wire Flammability Index, 2.0mm	960 ^[OT, 1] °C	IEC 60695-2-12
Glow Wire Ignition Temperature, 1.0mm	775 ^[OT, 1] °C	IEC 60695-2-13
Glow Wire Ignition Temperature, 2.0mm	825 ^[OT, 1] °C	IEC 60695-2-13
IOTI: One time tested		

[OT]: One time tested

[1]: SR 01407577 | Case | Salesforce 24COR032B _Glow Wire

Electrical properties

3.69	IEC 62631-2-1
3.67	IEC 62631-2-1
20 E-4	IEC 62631-2-1
20 E-4	IEC 62631-2-1
	3.67 20 E-4

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Physical/Other properties

Water absorption, 2mm	0.02 %	Sim. to ISO 62
Density	1720 kg/m ³	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
Hold pressure range	30 - 70	MPa
Back pressure	3	MPa

Characteristics

Processing Injection Moulding

Delivery form Pellets

Special characteristics High impact or impact modified, Thermal shock resistant

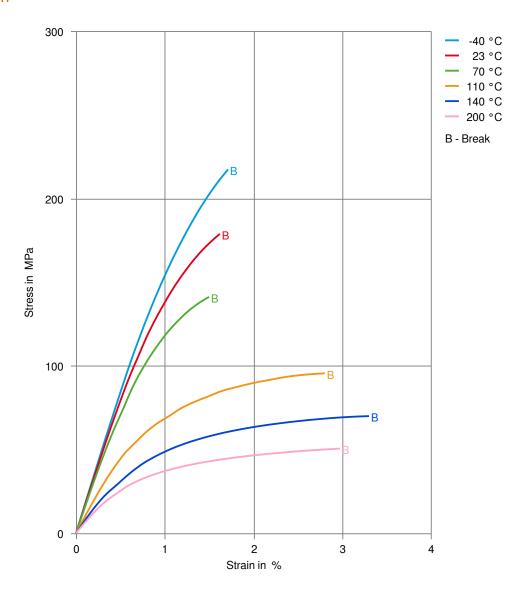
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Stress-strain

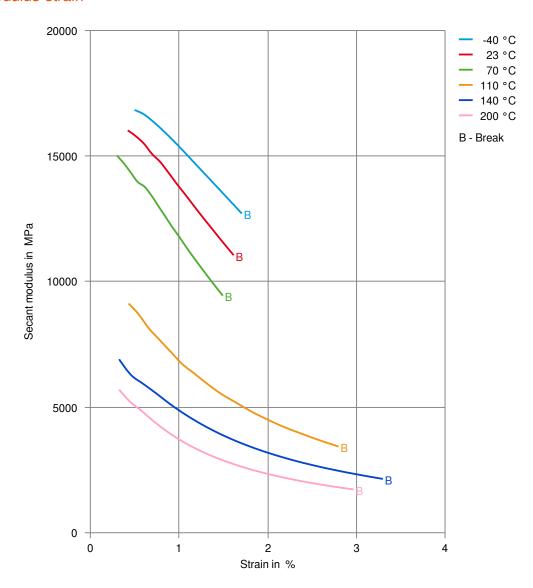


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Secant modulus-strain



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