

FORTRON[®] FX40T1

Polyphenylene sulfide

Fortron® FX40T1 is an unreinforced, impact-modified high toughness poly(phenylene sulfide)

Product information

Resin Identification Part Marking Code	PPS >PPS<	ISO 1043 ISO 11469
Typical mechanical properties		
Tensile modulus Tensile stress at break, 50mm/min Flexural modulus Flexural stress at 3.5% Charpy notched impact strength, 23°C Charpy notched impact strength, -30°C Poisson's ratio	2420 MPa 48 MPa 2800 MPa 85 MPa 50 kJ/m ² 10 kJ/m ² 0.411	ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eA ISO 179/1eA
Injection		
Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Screw tangential speed Mold Temperature Optimum Min. mould temperature Max. mould temperature Hold pressure range Back pressure	yes 130 °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 3.5 MPa	

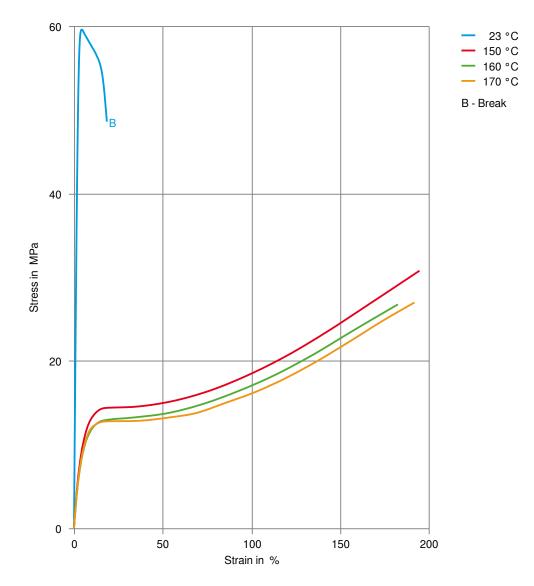
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Stress-strain

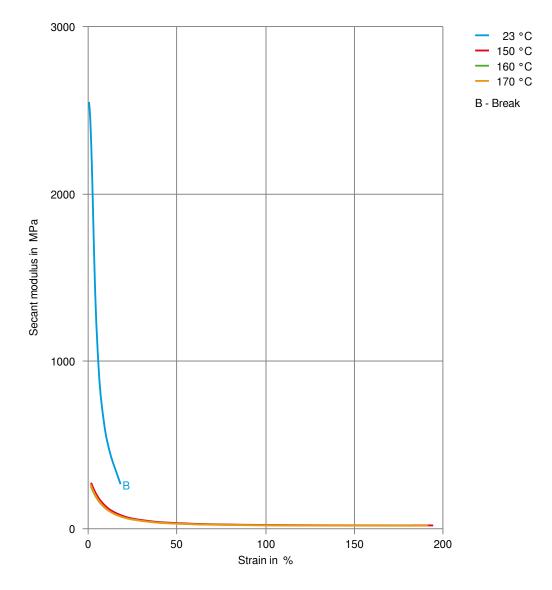




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Secant modulus-strain



Printed: 2024-09-05

Page: 3 of 3

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