

# FORTRON<sup>®</sup> FX40T1

## Polyphenylene sulfide

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

#### **Product information**

| Resin Identification<br>Part Marking Code  | PPS<br>>PPS<   | ISO 1043<br>ISO 11469  |
|--|--|--|
| Typical mechanical properties  |  |  |
| Tensile modulus<br>Tensile stress at break, 50mm/min<br>Flexural modulus<br>Flexural stress at 3.5%<br>Charpy notched impact strength, 23°C<br>Charpy notched impact strength, -30°C<br>Poisson's ratio  | 2420 MPa<br>48 MPa<br>2800 MPa<br>85 MPa<br>50 kJ/m <sup>2</sup><br>10 kJ/m <sup>2</sup><br>0.411  | ISO 527-1/-2<br>ISO 527-1/-2<br>ISO 178<br>ISO 178<br>ISO 179/1eA<br>ISO 179/1eA |
| Injection  |  |  |
| Drying Recommended<br>Drying Temperature<br>Drying Time, Dehumidified Dryer<br>Processing Moisture Content<br>Melt Temperature Optimum<br>Min. melt temperature<br>Max. melt temperature<br>Screw tangential speed<br>Mold Temperature Optimum<br>Min. mould temperature<br>Max. mould temperature<br>Hold pressure range<br>Back pressure | yes<br>130 °C<br>2 - 4 h<br>≤0.02 %<br>330 °C<br>310 °C<br>340 °C<br>0.2 - 0.3 m/s<br>150 °C<br>140 °C<br>160 °C<br>30 - 70 MPa<br>3.5 MPa |  |

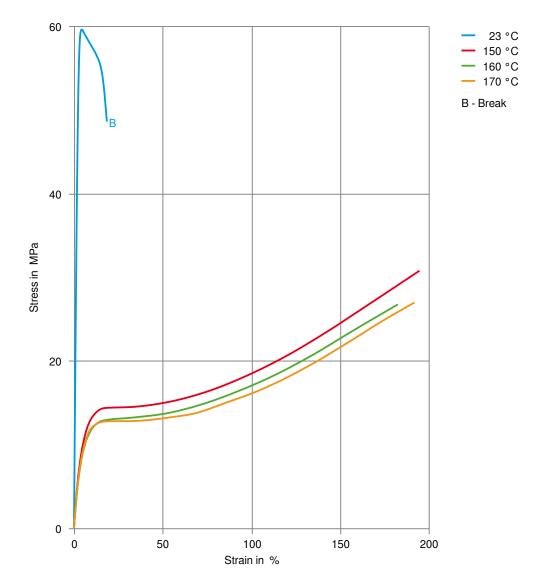
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### Stress-strain

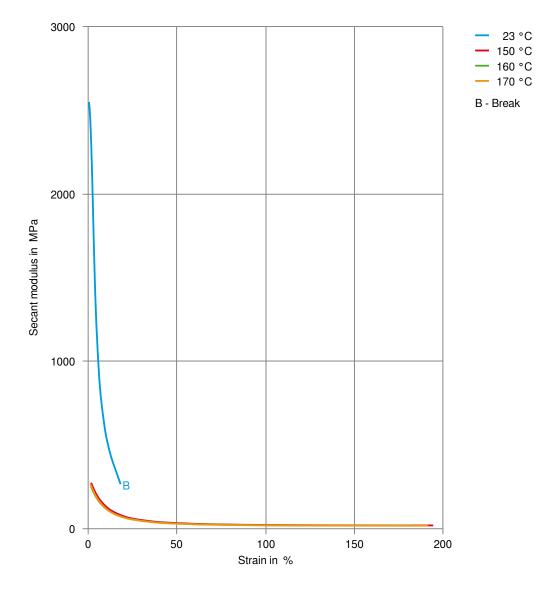




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### Secant modulus-strain



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