Celanese
The chemistry inside innovation™

FORTRON® FX40T1

Polyphenylene sulfide

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

Product information

Resin Identification	PPS	ISO 1043
Part Marking Code	>PPS<	ISO 11469

Typical mechanical properties

Tensile modulus	2420	MPa	ISO 527-1/-2
Tensile stress at break, 50mm/min	48	MPa	ISO 527-1/-2
Flexural modulus	2800	MPa	ISO 178
Flexural stress at 3.5%	85	MPa	ISO 178
Charpy notched impact strength, 23°C	50	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	10	kJ/m²	ISO 179/1eA
Poisson's ratio	0.411		

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	120	°C
Min. mould temperature	80	°C
Max. mould temperature	160	°C
Hold pressure range	30 - 70	MPa
Back pressure	3.5	MPa

Characteristics

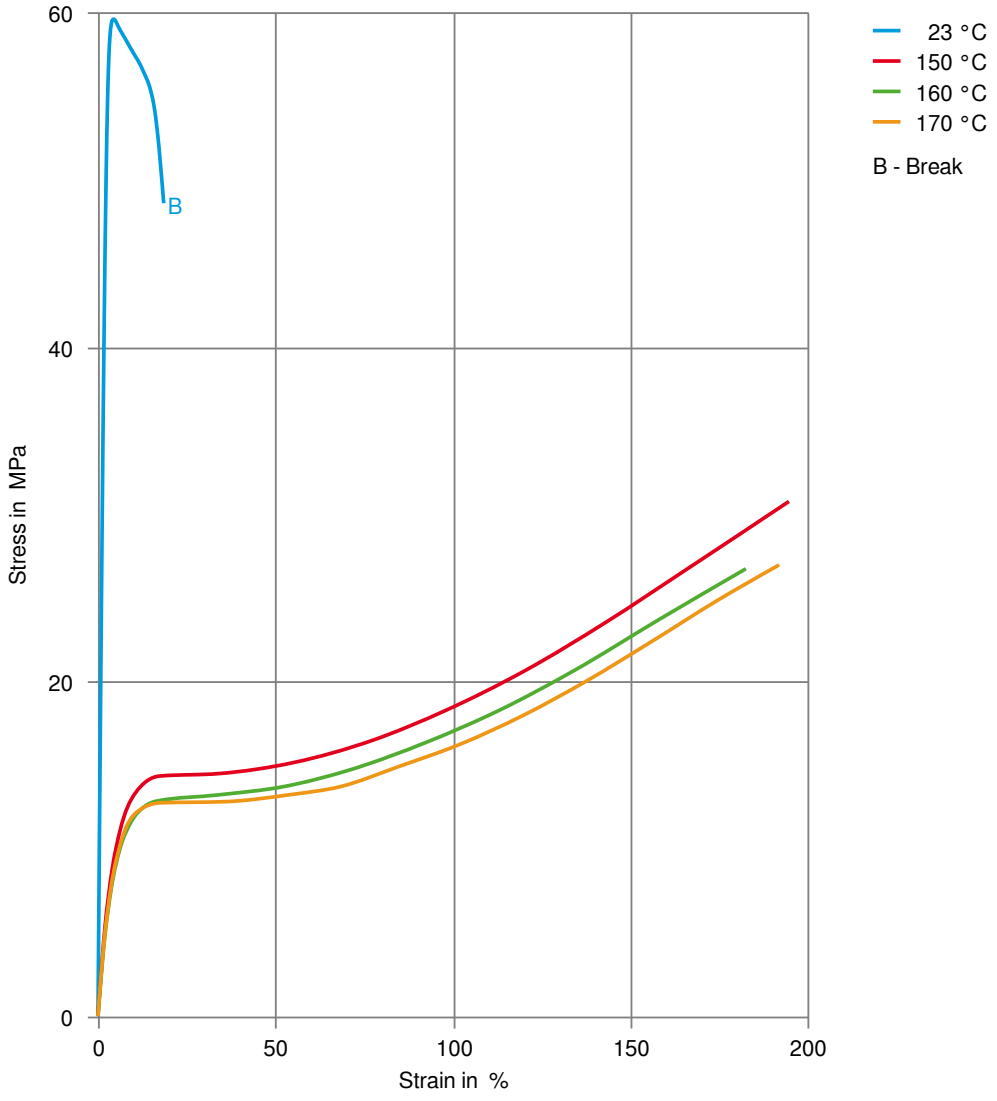
Processing	Injection Moulding, Extrusion, Blow Moulding
Special characteristics	High impact or impact modified

Celanese
The chemistry inside innovation™

FORTRON® FX40T1

Polyphenylene sulfide

Stress-strain



Celanese
The chemistry inside innovation™

FORTRON® FX40T1

Polyphenylene sulfide

Secant modulus-strain