

TECNOPRENE® QK2

TECNOPRENE®

Polypropylene, homopolymer, 10% glass fiber reinforced, chemically coupled, low flow.

Product information

Resin Identification	PP-GF10	ISO 1043
Part Marking Code	>PP-GF10<	ISO 11469

Rheological properties

Melt mass-flow rate	0.5 g/10min	ISO 1133
Melt mass-flow rate, Temperature	230 °C	
Melt mass-flow rate, Load	2.16 kg	
Moulding shrinkage, parallel	1.0 %	ISO 294-4, 2577
Moulding shrinkage range, parallel	0.8 - 1.2 %	ISO 294-4, 2577
Moulding shrinkage, normal	1.0 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.8 - 1.2 %	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	2800 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	48 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	7 %	ISO 527-1/-2
Flexural modulus	2500 MPa	ISO 178
Flexural strength	70 MPa	ISO 178
Charpy notched impact strength, 23 °C	12 kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23 °C	11 kJ/m ²	ISO 180/1A
Poisson's ratio	0.37 ^[C]	

[C]: Calculated

Thermal properties

Temperature of deflection under load, 1.8 MPa	100 °C	ISO 75-1/-2
Thermal conductivity, flow	0.36 W/(m K)	ISO 22007-2
Thermal conductivity, crossflow	0.34 W/(m K)	ISO 22007-2
Thermal conductivity, through plane	0.29 W/(m K)	ISO 22007-2
Effective thermal diffusivity, flow	1.9E-7 m ² /s	ISO 22007-4
Effective thermal diffusivity, crossflow	1.8E-7 m ² /s	ISO 22007-4
Effective thermal diffusivity, through plane	1.5E-7 m ² /s	ISO 22007-4

Flammability

Burning Behav. at 1.5mm nom. thickn.	HB class	IEC 60695-11-10
Burning Behav. at thickness h	HB class	IEC 60695-11-10
Thickness tested	3.2 mm	IEC 60695-11-10

Physical/Other properties

Density	980 kg/m ³	ISO 1183
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Injection

Ejection temperature

106 °C

Characteristics

Processing

Injection Moulding

Special characteristics

Heat stabilised or stable to heat

Additional information

Processing Notes

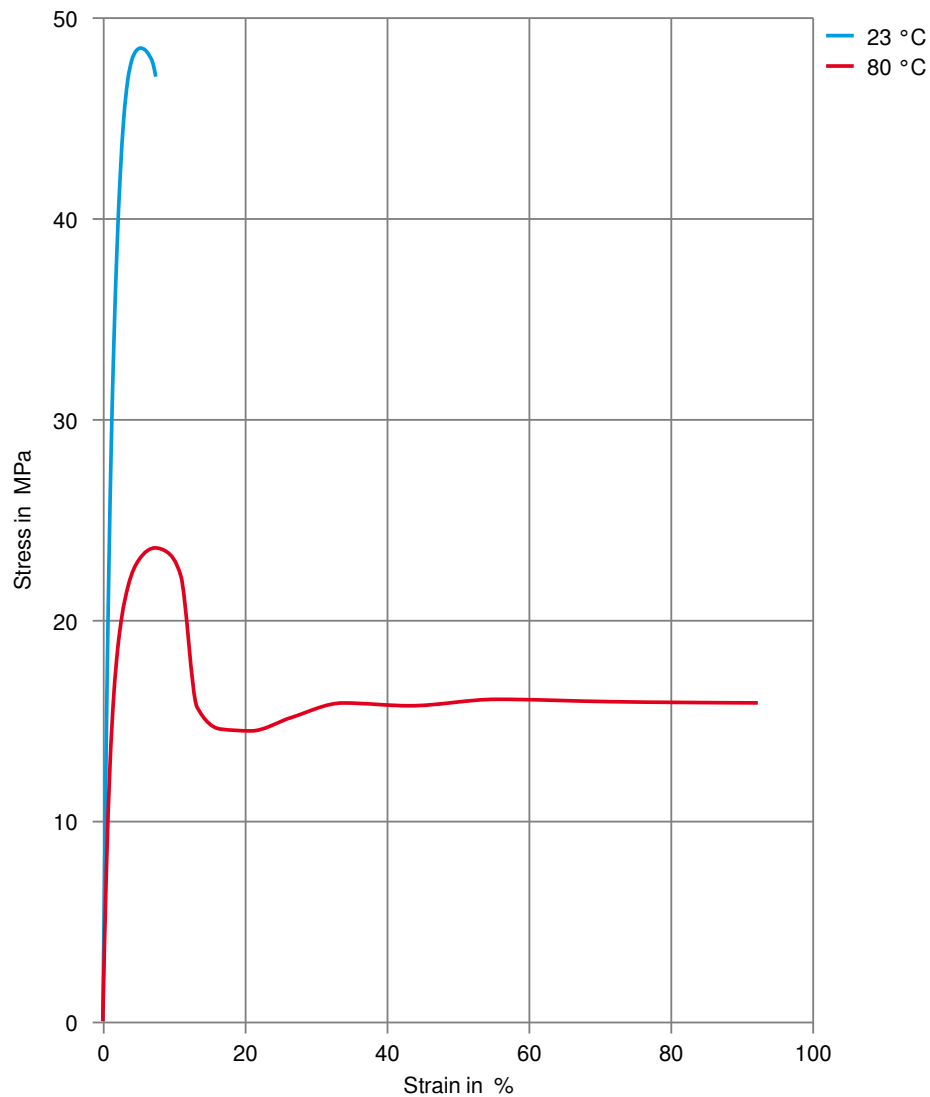
Storage

This product should be stored in a covered facility and kept away from moisture and heat.

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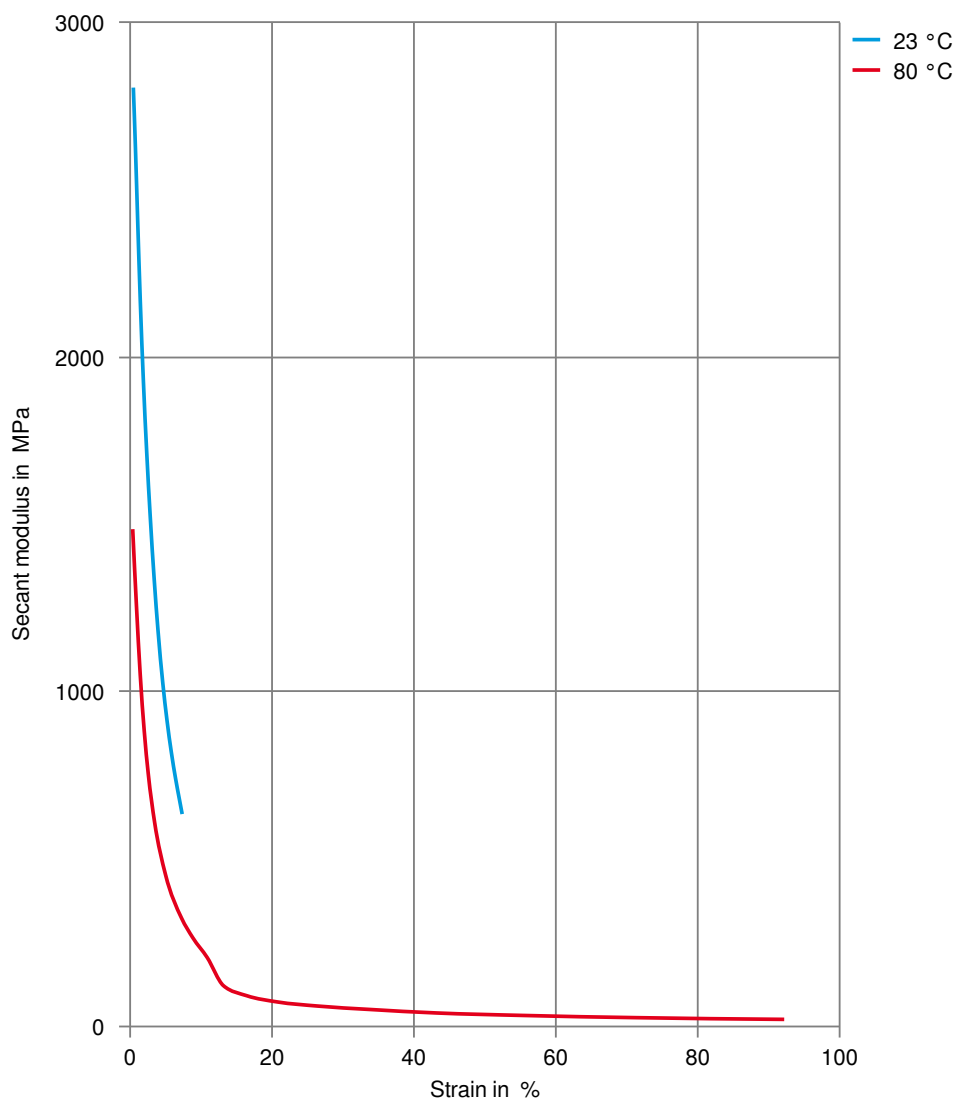
Stress-strain



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Secant modulus-strain



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