

TECNOPRENE® AK7HCT

High crystallinity polypropylene homopolymer reinforced with 35% chemically coupled glass fiber, high heat stabilization. (PP-GF35)

Rheological properties

Moulding shrinkage range, parallel	0.2 - 0.5 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.4 - 0.8 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	8500 MPa	ISO 527-1/-2
Stress at break, 5mm/min	105 MPa	ISO 527-1/-2
Strain at break, 5mm/min	2.6 %	ISO 527-1/-2
Flexural Modulus	8500 MPa	ISO 178
Flexural Strength	170 MPa	ISO 178
Charpy impact strength, 23°C	55 kJ/m ²	ISO 179/1eU
Charpy impact strength, -30 °C	52 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	12 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30 °C	9 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.4	

Thermal properties

Temp. of deflection under load, 1.8 MPa	152 °C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	26 E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	132 E-6/K	ISO 11359-1/-2

Flammability

Burning Behav. at 1.5mm nom. thickn.	HB class	UL 94
Burning Behav. at thickness h	HB class	UL 94

Other properties

Density	1180 kg/m ³	ISO 1183
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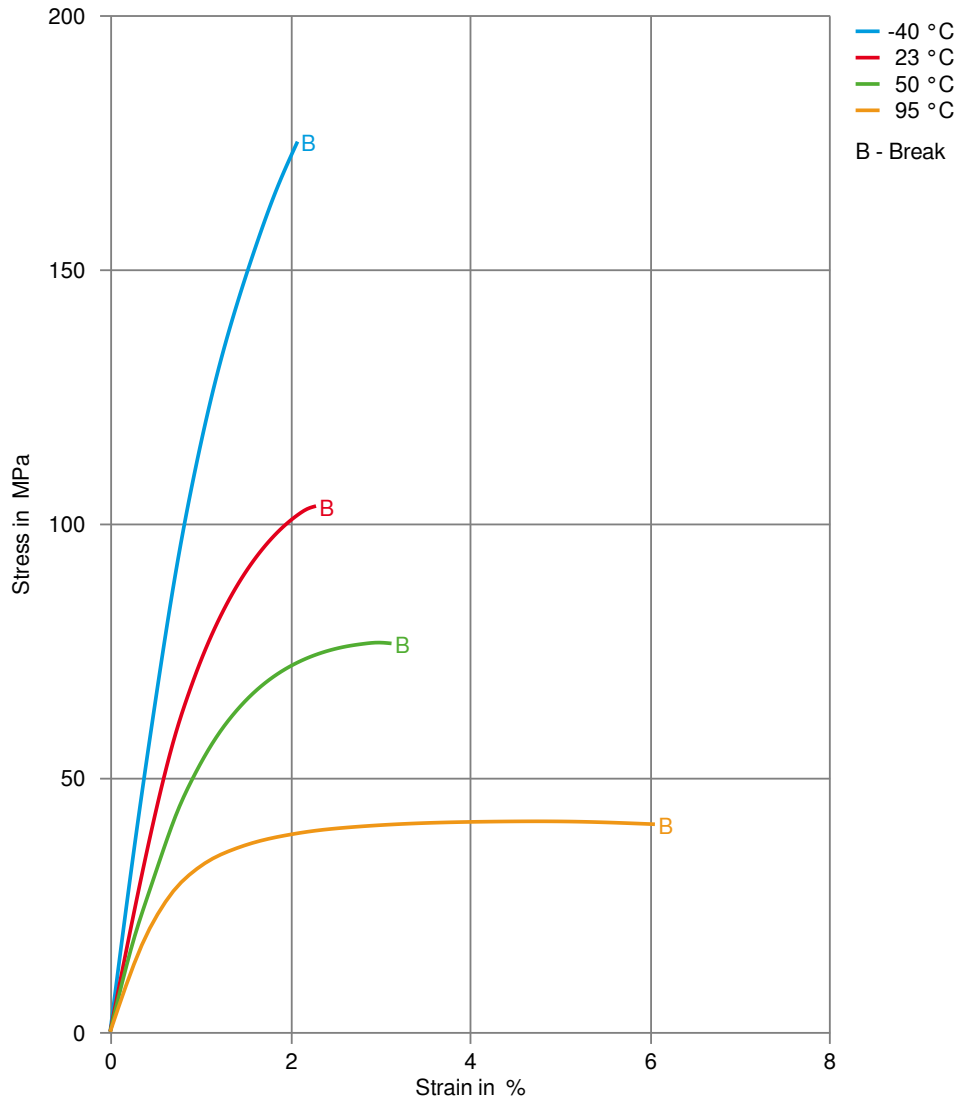
Injection

Drying Temperature	80 - 100 °C	
Drying Time, Dehumidified Dryer	2 - 3 h	
Melt Temperature Optimum	225 °C	Internal
Max. mould temperature	50 - 80 °C	



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Stress-strain

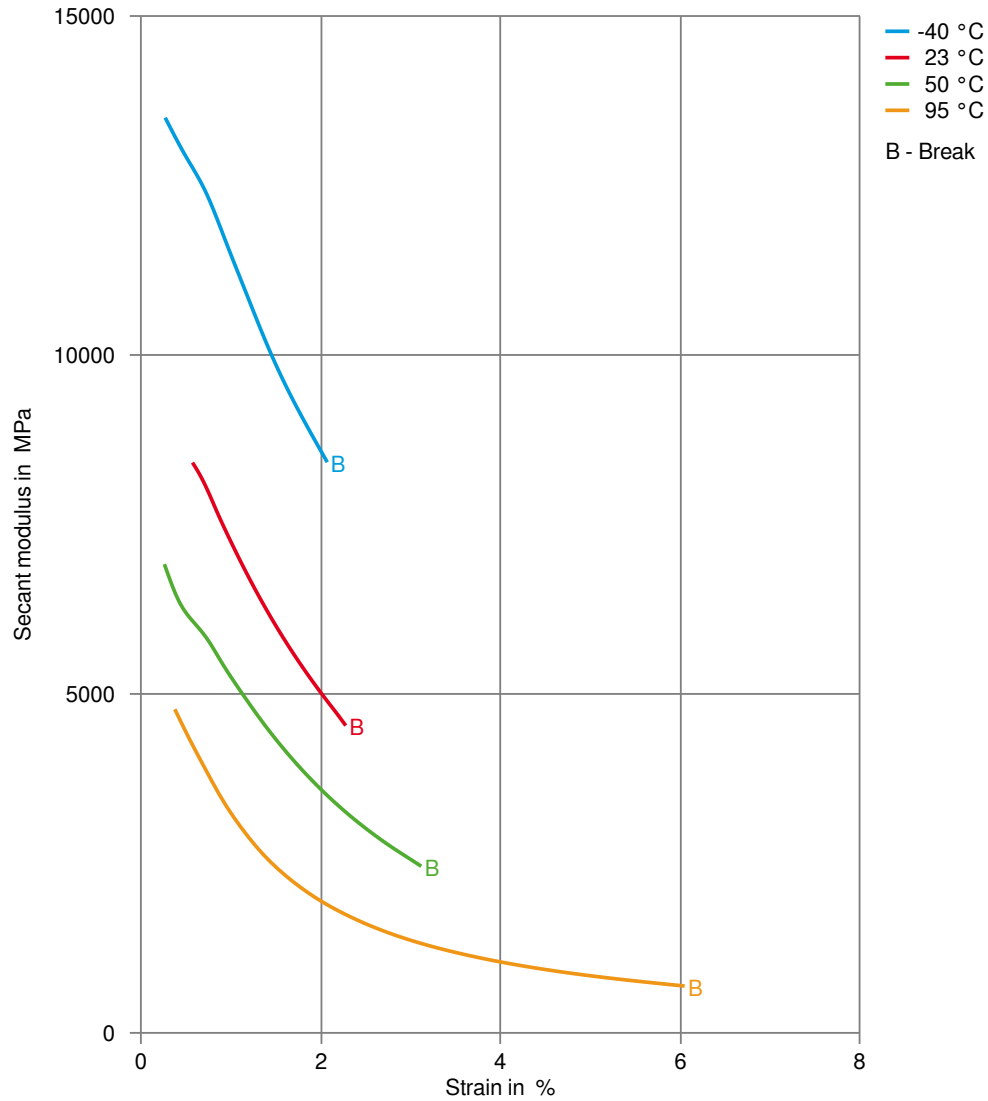


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Secant modulus-strain

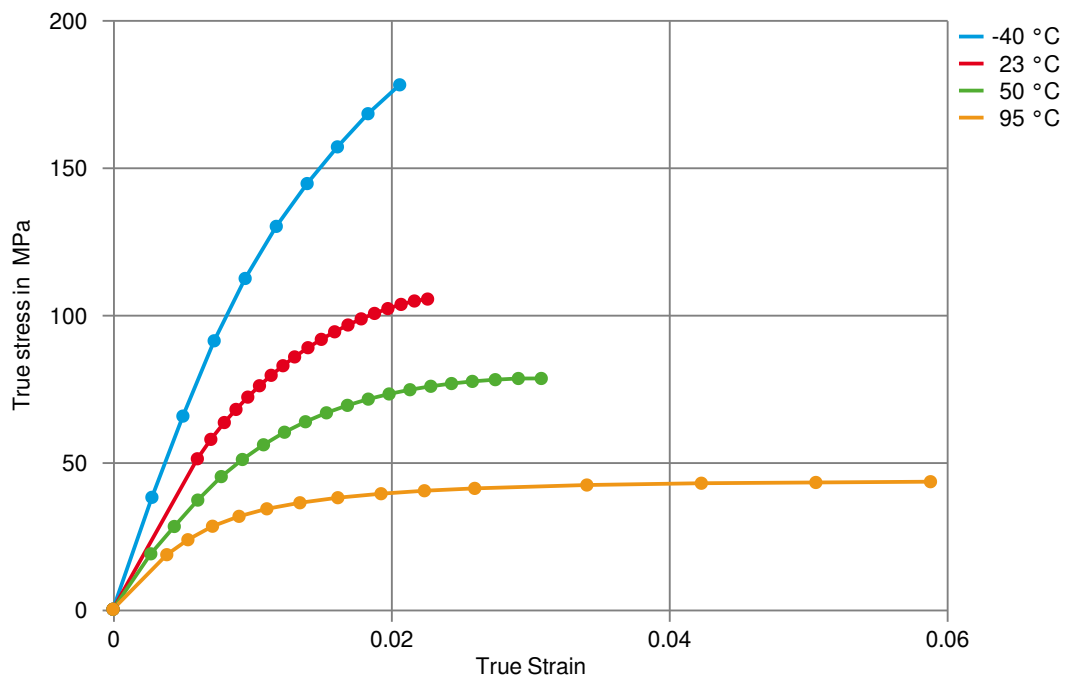


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True stress-strain



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Processing Texts

Longer pre-drying times/storage

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

Other Approvals

Other Approvals

OEM	Specification	Additional Information
Renault	UB02a	PMR2020, Black(NERO AS9)
Renault	UB02d	PMR2020, Black(NERO AS9)
Renault	UB04a	PMR2020, Black(NERO AS9)
Renault	UB05a	PMR2020, Black(NERO AS9)
Renault	UB05i	PMR2020, Black(NERO AS9)
Renault	UB09a	PMR2020, Black(NERO AS9)
Renault	UB09b	PMR2020, Black(NERO AS9)
Renault	UB09c	PMR2020, Black(NERO AS9)
Renault	UB09h	PMR2020, Black(NERO AS9)
Renault	UB11	PMR2020, Black(NERO AS9)
Renault	UB15	PMR2020, Black(NERO AS9)
VW Group	VW44045	PP10

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