

TECNOPRENE® HF GF/30 V0

TECNOPRENE®

Polypropylene, homopolymer, 30% glass fiber reinforced, chemically coupled, V0, halogen free, laser markable

Product information

Resin Identification	PP-GF30 FR(40)	ISO 1043
Part Marking Code	>PP-GF30 FR(40)<	ISO 11469

Rheological properties

Melt mass-flow rate	3 g/10min	ISO 1133
Melt mass-flow rate, Temperature	230 °C	
Melt mass-flow rate, Load	2.16 kg	
Moulding shrinkage range, parallel	0.2 - 0.5 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.6 - 0.9 %	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	8700 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	82 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5 %	ISO 527-1/-2
Flexural modulus	8000 MPa	ISO 178
Flexural strength	120 MPa	ISO 178
Charpy impact strength, 23°C	35 kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	28 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	7.5 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	6.2 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.34 ^[C]	

[C]: Calculated

Thermal properties

Temperature of deflection under load, 1.8 MPa	143 °C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	138 °C	ISO 306
Coefficient of linear thermal expansion (CLTE), parallel	24 E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	120 E-6/K	ISO 11359-1/-2

Flammability

Burning Behav. at 1.5mm nom. thickn.	V-0 class	IEC 60695-11-10
Thickness tested	1.6 mm	IEC 60695-11-10
UL recognition	yes	UL 94
FMVSS Class	DNI	ISO 3795 (FMVSS 302)

Electrical properties

Volume resistivity	2.02E13 Ohm.m	IEC 62631-3-1
Surface resistivity	1.58E15 Ohm	IEC 62631-3-2
Electric strength	39.9 kV/mm	IEC 60243-1
Comparative tracking index, 100 drops	600	IEC 60112
Relative permittivity, printed circuits and boards, 2.5 GHz	3.5	IEC 61189-2-721

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Dissipation factor, printed circuits and boards, 2.5 GHz 39 E-4 IEC 61189-2-721

Physical/Other properties

Density 1340 kg/m³ ISO 1183

Injection

Ejection temperature 111 °C

Characteristics

Processing	Injection Moulding
Additives	Flame retardant
Special characteristics	Flame retardant, Laser Markable

Additional information

Processing Notes

Storage

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

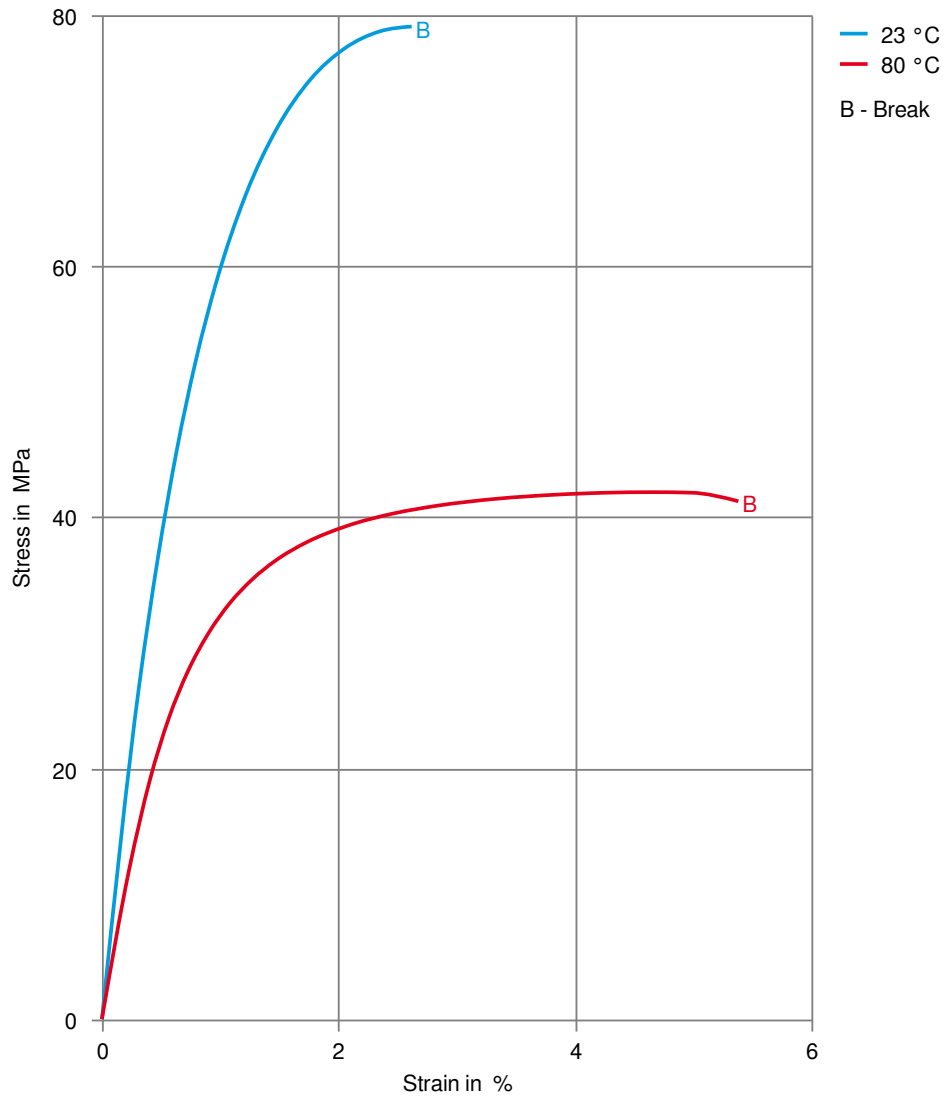
Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Renault	UB22d, No Spec, Special Part Approval, See Your CE Account Manager.	
Stellantis	B62 0300 / 61/214E/214M/C2B/C4	01378_21_00760

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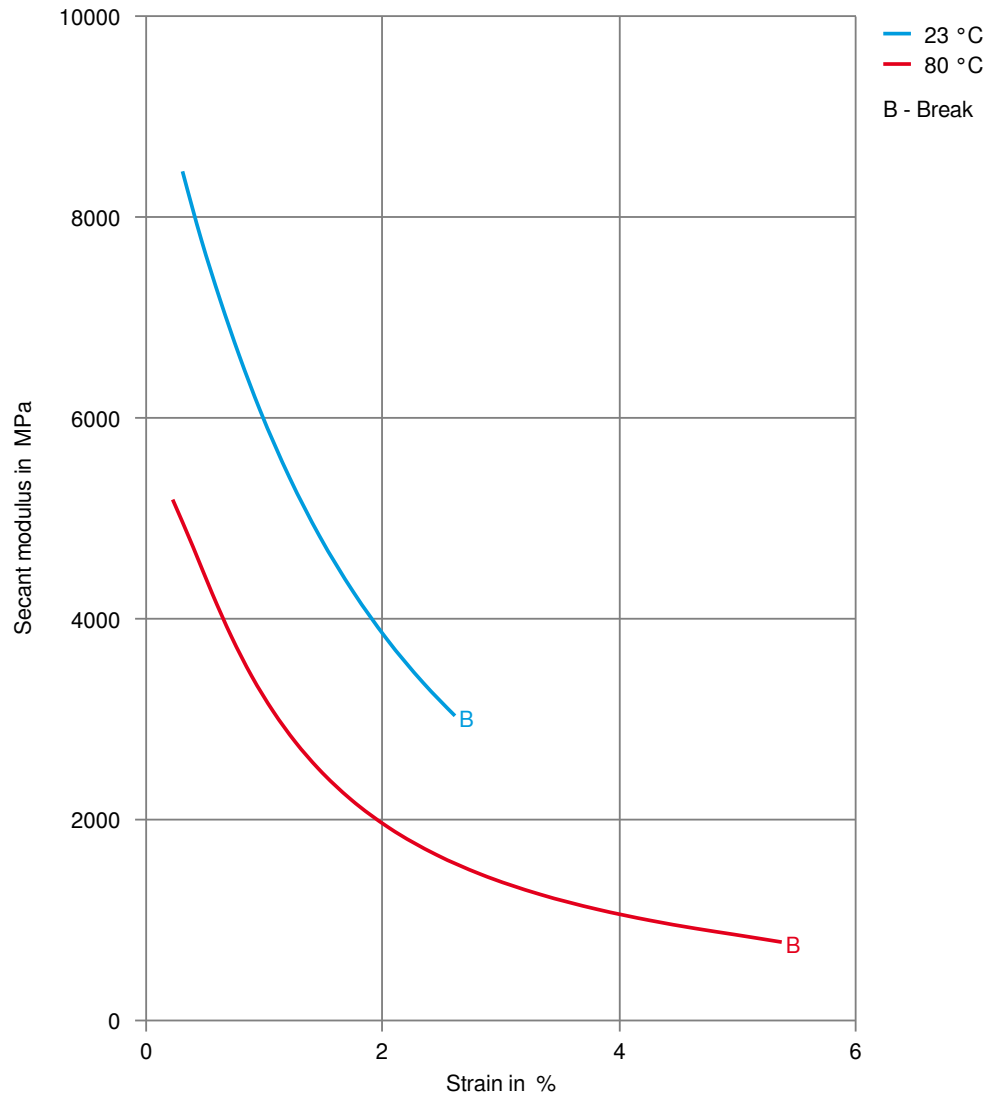
Stress-strain



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Secant modulus-strain



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