

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

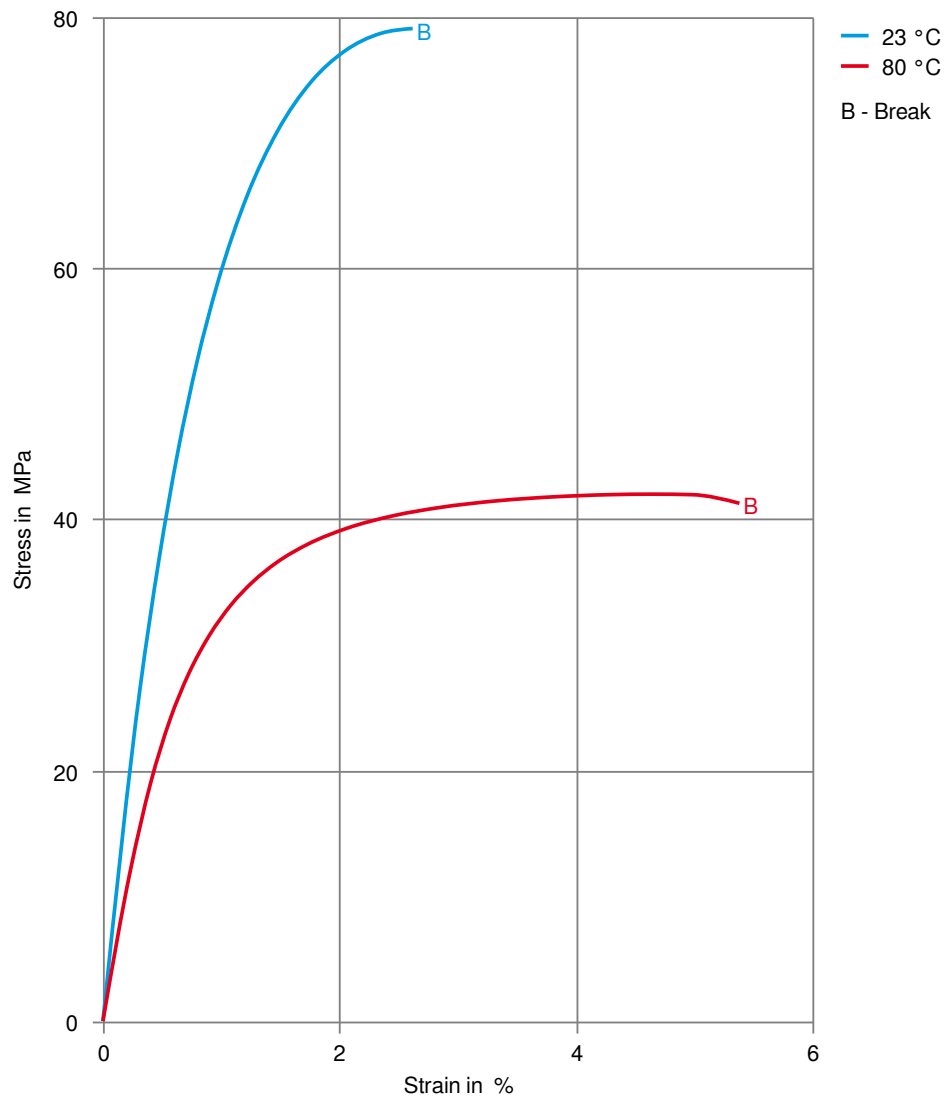
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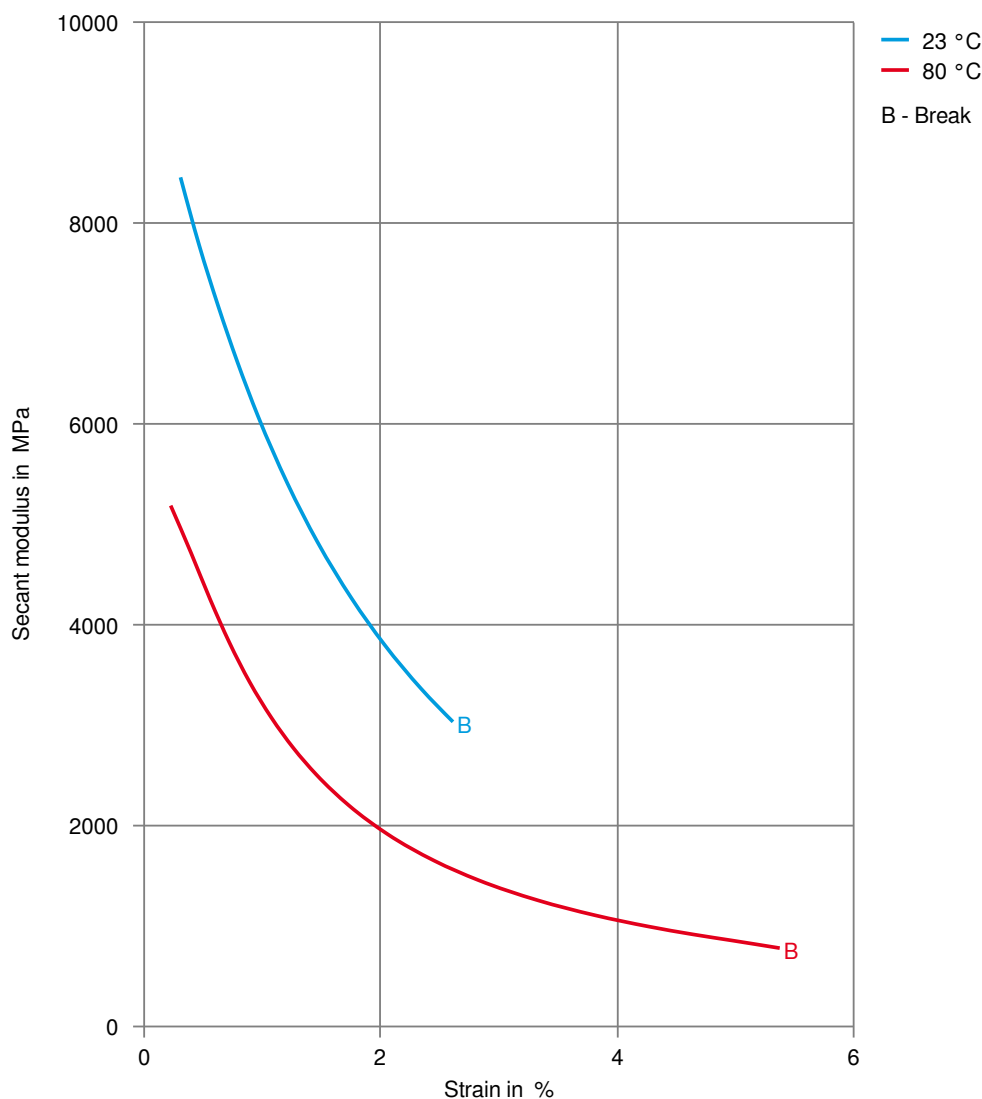
Stress-strain



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Secant modulus-strain



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