Celanese
The chemistry inside innovation™

POLIFOR® L6 GF/30

POLIFOR®

Polypropylene, homopolymer, 30% glass fiber reinforced, chemically coupled, suggested for use until 120 °C as max operating temperature

Product information

Resin Identification	PP-GF30		ISO 1043
Part Marking Code	>PP-GF30<		ISO 11469
Continuous Service Temperature	120	°C	IEC 60216-1

Rheological properties

Melt mass-flow rate	2.5	g/10min	ISO 1133
Melt mass-flow rate, Temperature	230	°C	
Melt mass-flow rate, Load	2.16	kg	
Moulding shrinkage range, parallel	0.1 - 0.4	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.4 - 0.8	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	6700	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	85	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.5	%	ISO 527-1/-2
Flexural modulus	6700	MPa	ISO 178
Flexural strength	140	MPa	ISO 178
Charpy impact strength, 23 °C	60	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23 °C	13	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23 °C	13	kJ/m²	ISO 180/1A
Poisson's ratio	0.447[OT]		

[OT]: One time tested

Thermal properties

Temperature of deflection under load, 1.8 MPa	148	°C	ISO 75-1/-2
Vicat softening temperature, 50 °C/h 50N	140	°C	ISO 306

Flammability

Burning Behav. at 1.5mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	yes		UL 94
Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.2	mm	IEC 60695-11-10
FMVSS Class	B		ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	89.1	mm/min	ISO 3795 (FMVSS 302)

Physical/Other properties

Density	1120	kg/m³	ISO 1183

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Characteristics

Processing	Injection Moulding

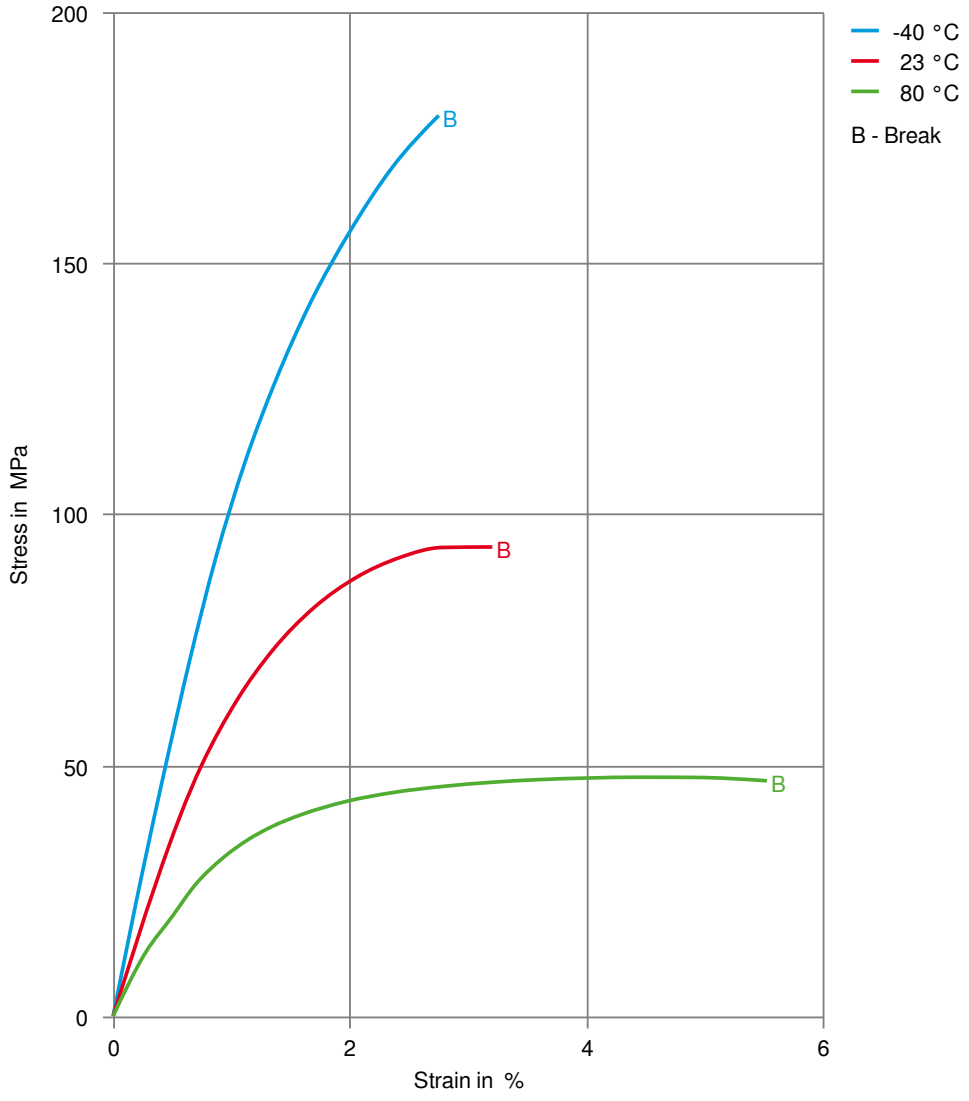
Additional information

Processing Notes

Storage

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

Stress-strain



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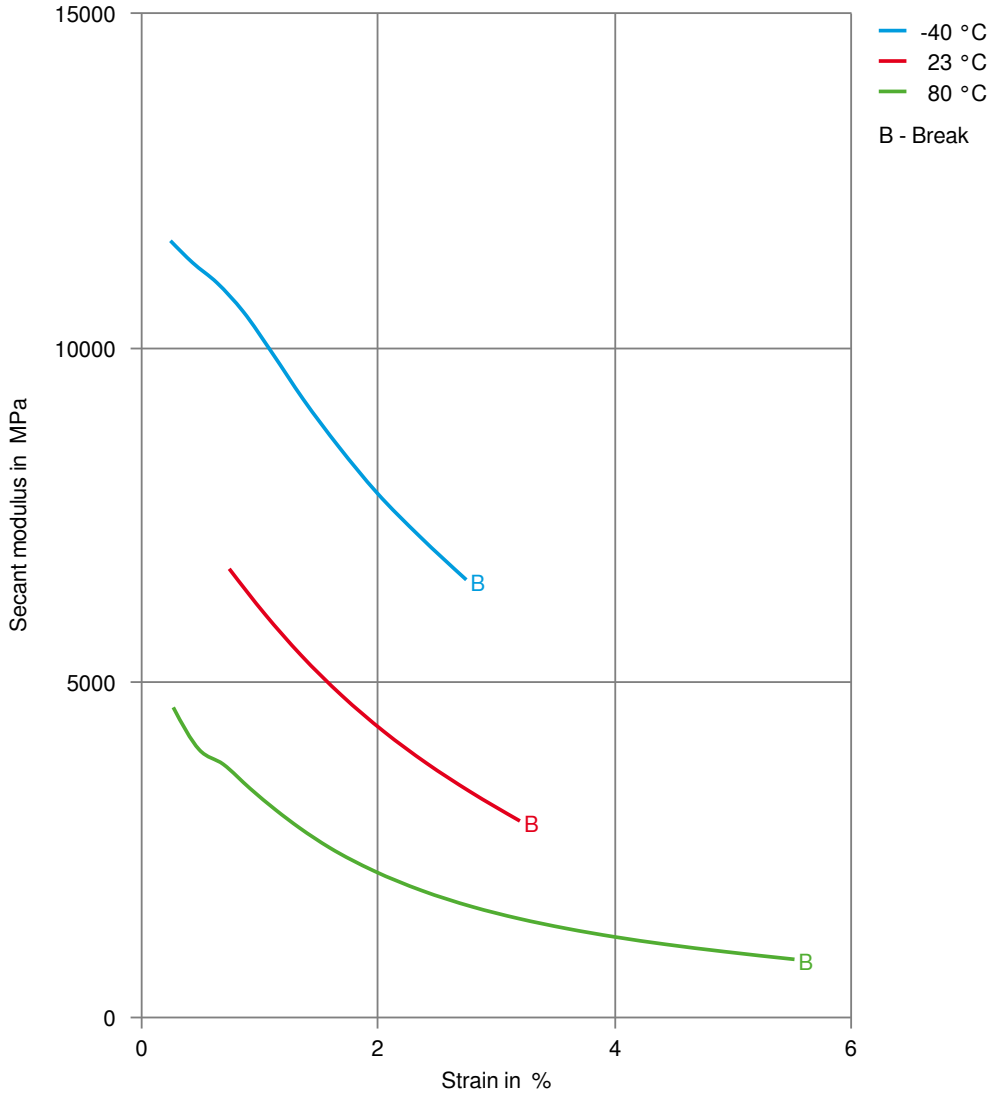
Secant modulus-strain



Revised: 2025-04-18 Source: Celanese Materials Database