TECNOPRENE® HF GF/20 V0

TECNOPRENE®

Polypropylene, homopolymer, 20% glass fiber reinforced, chemically coupled, V0, halogen free, laser markable

Product information

Resin Identification	PP-GF20 FR(40)	ISO 1043
Part Marking Code	>PP-GF20 FR(40)<	ISO 11469

Rheological properties

Melt mass-flow rate	4	g/10min	ISO 1133
Melt mass-flow rate, Temperature	446	°F	
Melt mass-flow rate, Load	4.76	lb	
Molding shrinkage range, parallel	0.3 - 0.6	%	ISO 294-4, 2577
Molding shrinkage range, normal	0.7 - 0.9	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	943000	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	9570	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	3	%	ISO 527-1/-2
Flexural modulus	899000	psi	ISO 178
Charpy impact strength, 23°C	14.3	ftlb/in²	ISO 179/1eU
Charpy impact strength, -30°C	11.4	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	3.09	ftlb/in²	ISO 179/1eA
Charpy notched impact strength, -30°C	2.38	ftlb/in²	ISO 179/1eA

Thermal properties

Temperature of deflection under load, 1.8 MPa	279	°F	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	275	°F	ISO 306
Coefficient of linear thermal expansion (CLTE), parallel	0.19	E-4/°F	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	0.711	E-4/°F	ISO 11359-1/-2

Flammability

Burning Behav. at 1.5mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	0.0630	in	IEC 60695-11-10
UL recognition	yes		UL 94
Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.1260	in	IEC 60695-11-10
FMVSS Class	SE		ISO 3795 (FMVSS 302)

Electrical properties

Relative permittivity, 2GHz	3.29		IEC 61189-2-721
Dissipation factor, 2GHz	44	E-4	IEC 61189-2-721
Volume resistivity	3.7E13	Ohm.m	IEC 62631-3-1
Surface resistivity	5.9E15	Ohm	IEC 62631-3-2
Electric strength	1010	kV/in	IEC 60243-1

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Physical/Other properties

Density	0.0448	lb/in³	ISO 1183

Injection

Ejection temperature	235	°F

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
VW Group	VW 44045	Nero 900 (With Deviations)

Characteristics

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

Additional information

Processing Notes

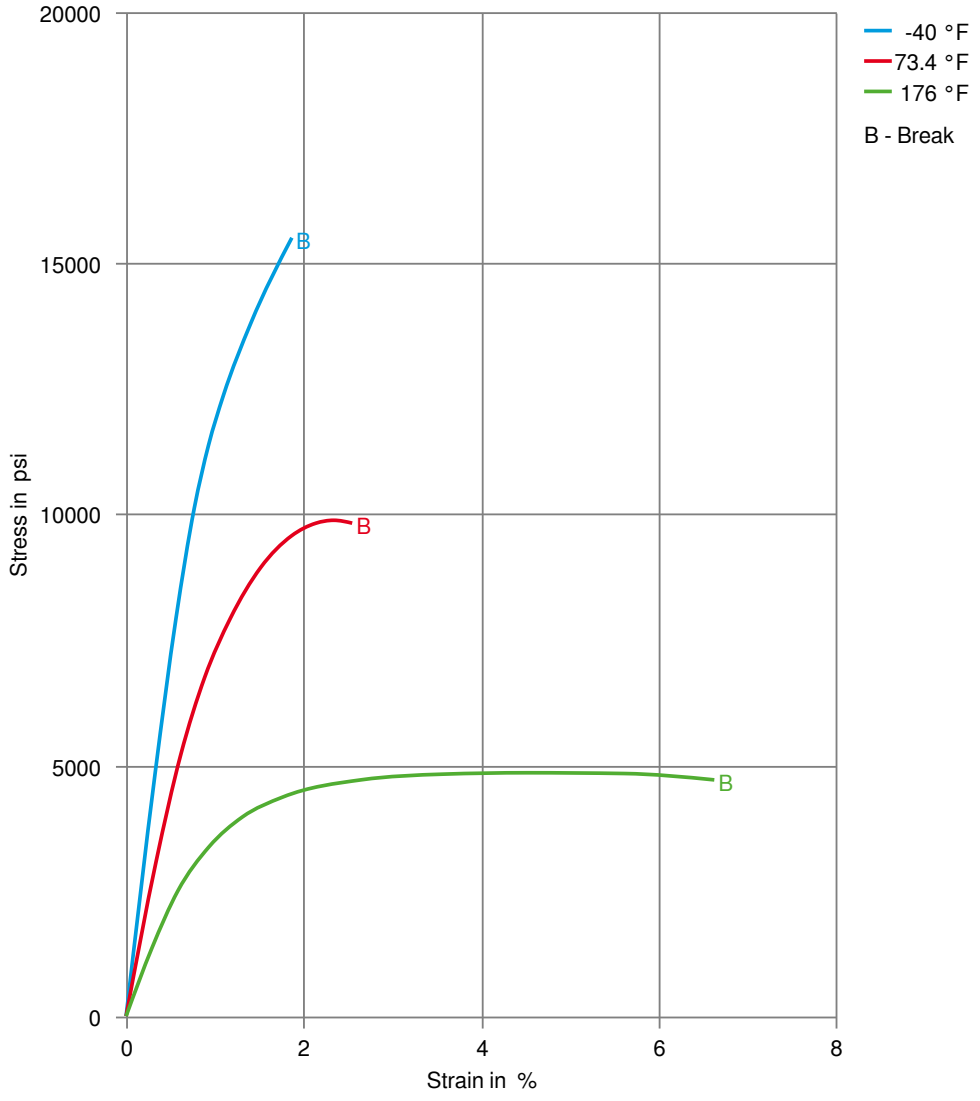
Storage

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

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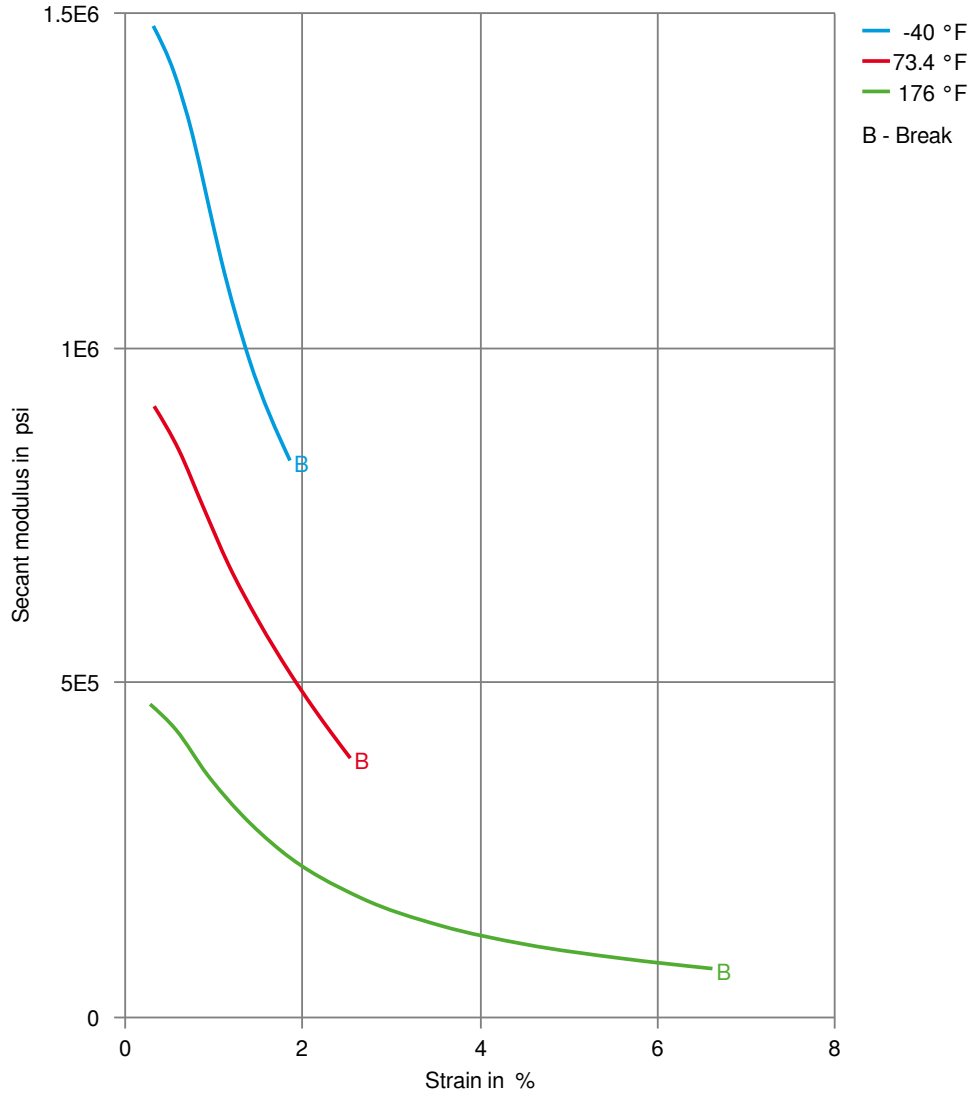
Stress-strain



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Secant modulus-strain



Revised: 2026-08-12 Source: Celanese Materials Database

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