TECNOPRENE® QK2

TECNOPRENE®

Polypropylene, homopolymer, 10% glass fiber reinforced, chemically coupled, low flow.

Product information

Resin Identification	PP-GF10		ISO 1043
Part Marking Code	>PP-GF10<		ISO 11469

Rheological properties

Melt mass-flow rate	0.5	g/10min	ISO 1133
Melt mass-flow rate, Temperature	446	°F	
Melt mass-flow rate, Load	4.76	lb	
Molding shrinkage, parallel	1.0	%	ISO 294-4, 2577
Molding shrinkage range, parallel	0.8 - 1.2	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0	%	ISO 294-4, 2577
Molding shrinkage range, normal	0.8 - 1.2	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	406000	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	6960	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	7	%	ISO 527-1/-2
Flexural modulus	363000	psi	ISO 178
Flexural strength	10200	psi	ISO 178
Charpy notched impact strength, 23°C	5.71	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23°C	5.23	ftlb/in²	ISO 180/1A

Thermal properties

Temperature of deflection under load, 1.8 MPa	212	°F	ISO 75-1/-2
Thermal conductivity, flow	0.36	W/(m K)	ISO 22007-2
Thermal conductivity, crossflow	0.34	W/(m K)	ISO 22007-2
Thermal conductivity, through plane	0.29	W/(m K)	ISO 22007-2
Effective thermal diffusivity, flow	1.9E-7	m²/s	ISO 22007-4
Effective thermal diffusivity, crossflow	1.8E-7	m²/s	ISO 22007-4
Effective thermal diffusivity, through plane	1.5E-7	m²/s	ISO 22007-4

Flammability

Burning Behav. at 1.5mm nom. thickn.	HB	class	IEC 60695-11-10
Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.1260	in	IEC 60695-11-10

Physical/Other properties

Density	0.0354	lb/in³	ISO 1183

Injection

Ejection temperature	223	°F	

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Characteristics

Processing	Injection Molding
Special characteristics	Heat stabilized or stable to heat

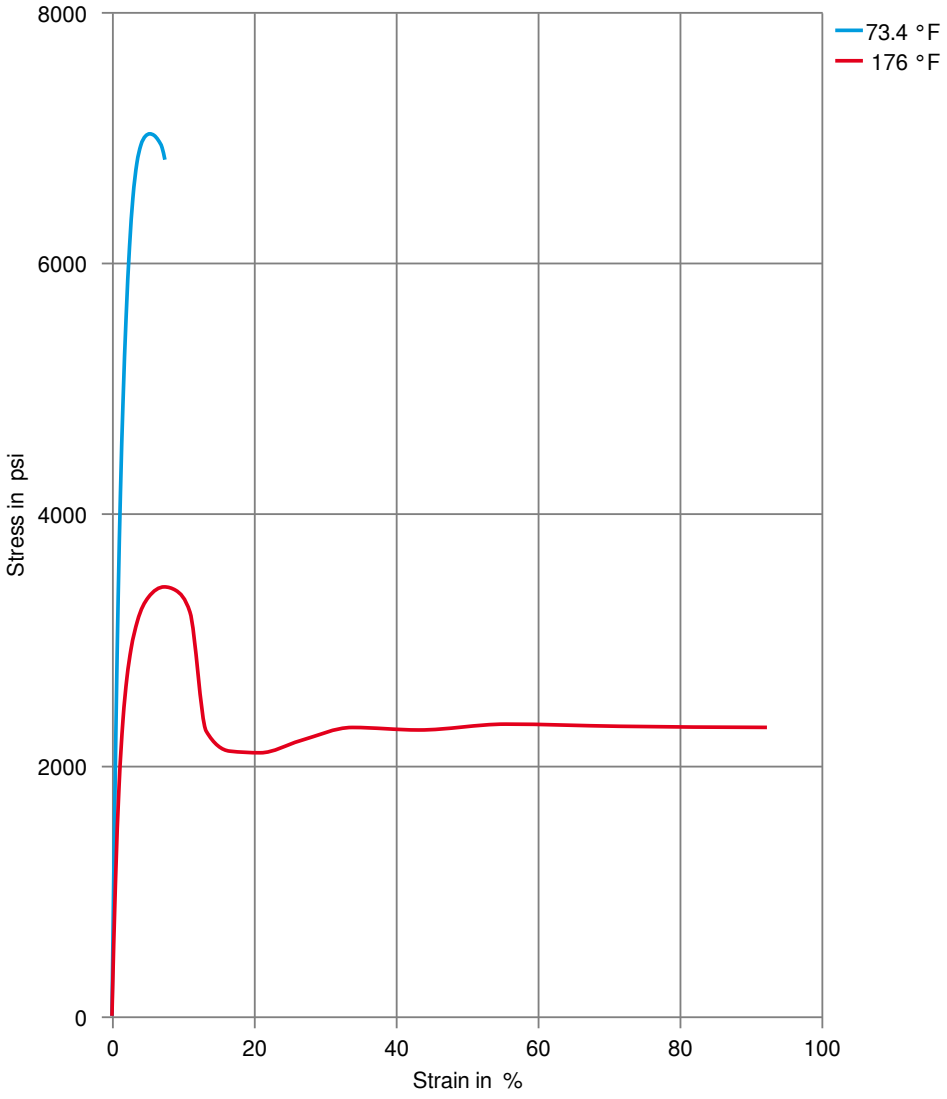
Additional information

Processing Notes

Storage

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

Stress-strain

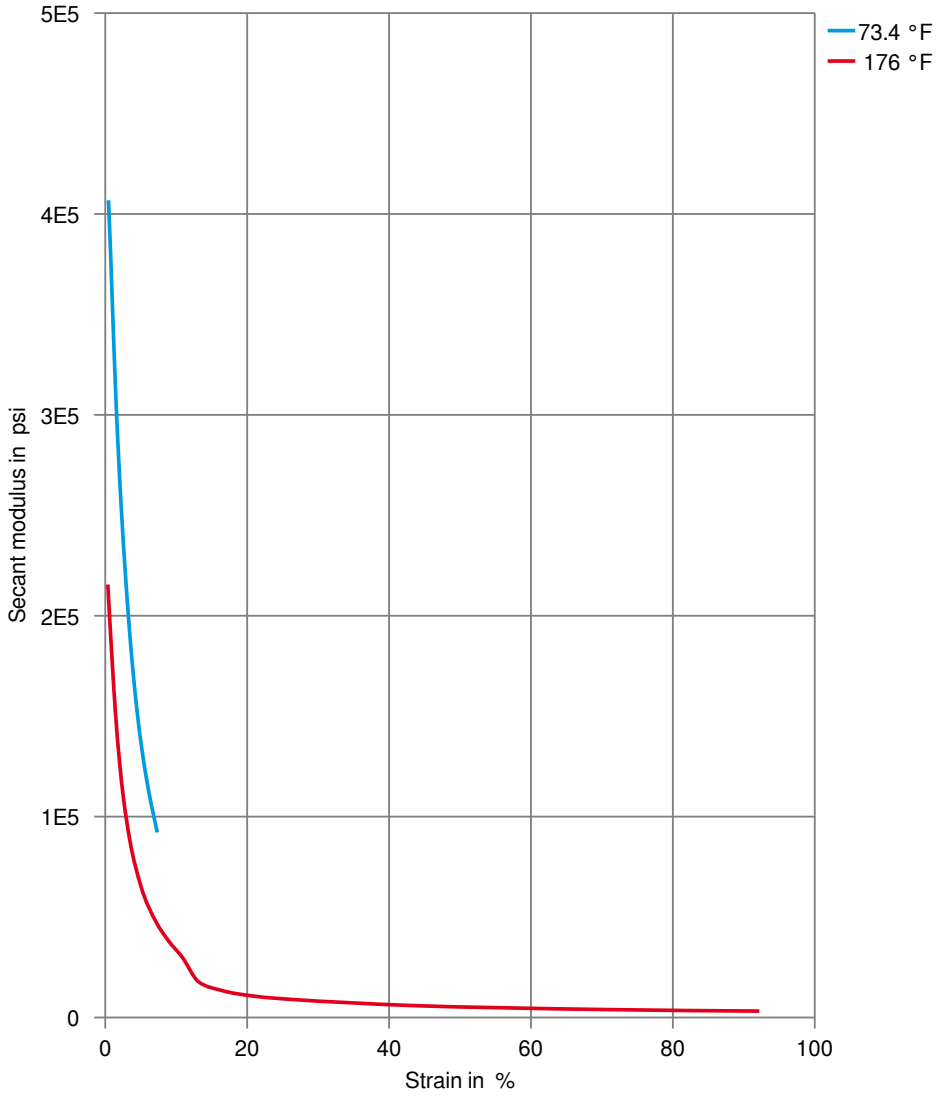


Revised: 2024-01-23 Source: Celanese Materials Database

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Secant modulus-strain



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