CELANYL® A3 H NC 1102/1

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Product information

Resin Identification	PA66	ISO 1043
Part Marking Code	>PA66<	ISO 11469

Rheological properties

Molding shrinkage range, parallel	1 - 1.5 %	ISO 294-4, 2577
Molding shrinkage range, normal	1 - 1.5 %	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	486000 / 228000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	12000 / 8400	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	4.3 / 20	%	ISO 527-1/-2
Tensile strain at break, 50mm/min	10 / -	%	ISO 527-1/-2
Flexural modulus	479000 / 180000	psi	ISO 178
Flexural strength	15200 / 5080	psi	ISO 178
Charpy notched impact strength, 23 °C	1.9 / 5.95	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23 °C	1.9 / -	ftlb/in²	ISO 180/1A

Thermal properties

	dry/cond.		
Temperature of deflection under load, 1.8 MPa	151 / *	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	399 / *	°F	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.0315 / *	in	IEC 60695-11-10
FMVSS Class	SE		ISO 3795 (FMVSS 302)

Physical/Other properties

	dry/cond.		
Density	0.0412 / -	lb/in³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	176	°F
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.15	%
Melt Temperature Optimum	554	°F
Min. melt temperature	536	°F
Max. melt temperature	572	°F
Max. screw tangential speed	≤0.4	m/s
Mold Temperature Optimum	158	°F
Min. mold temperature	122	°F
Max. mold temperature	194	°F

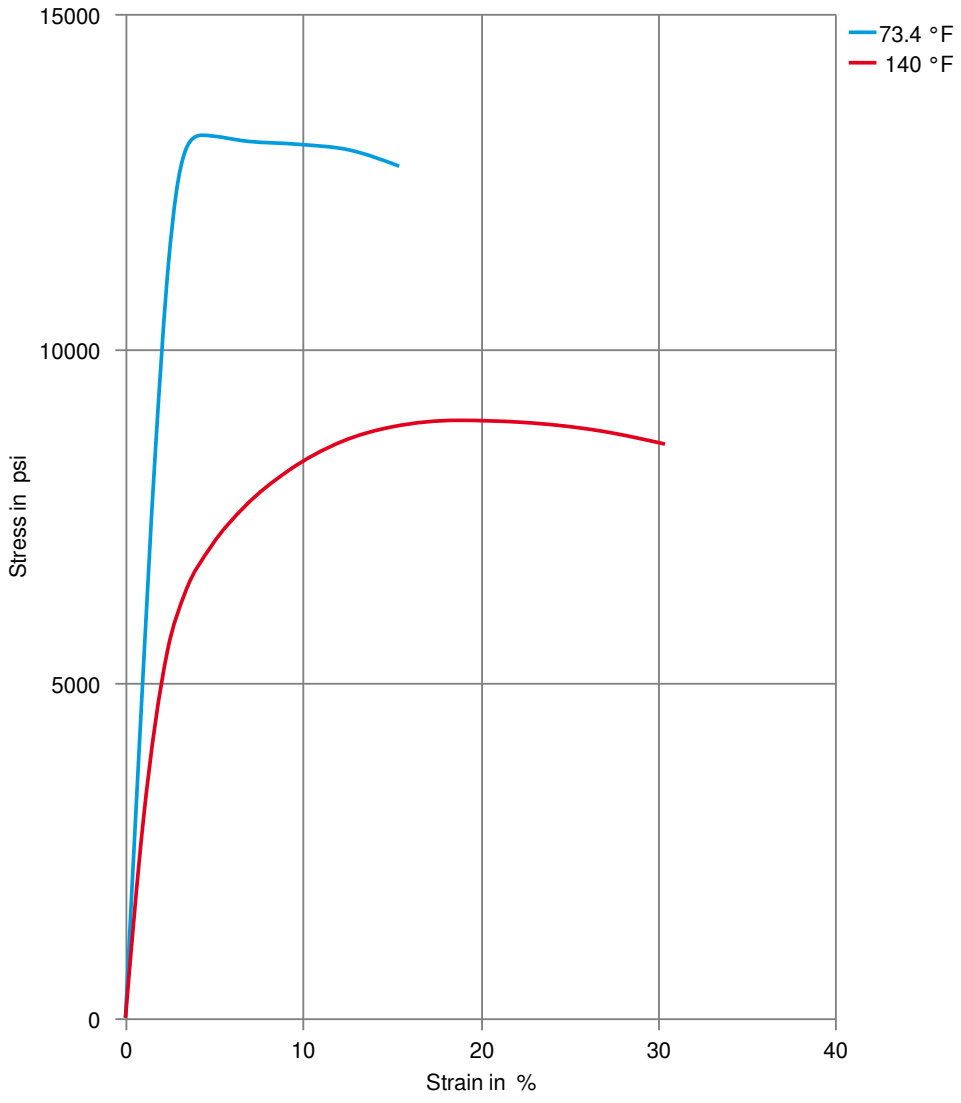
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Characteristics

Processing	Injection Molding
Special characteristics	Heat stabilized or stable to heat, Low wear / Low friction

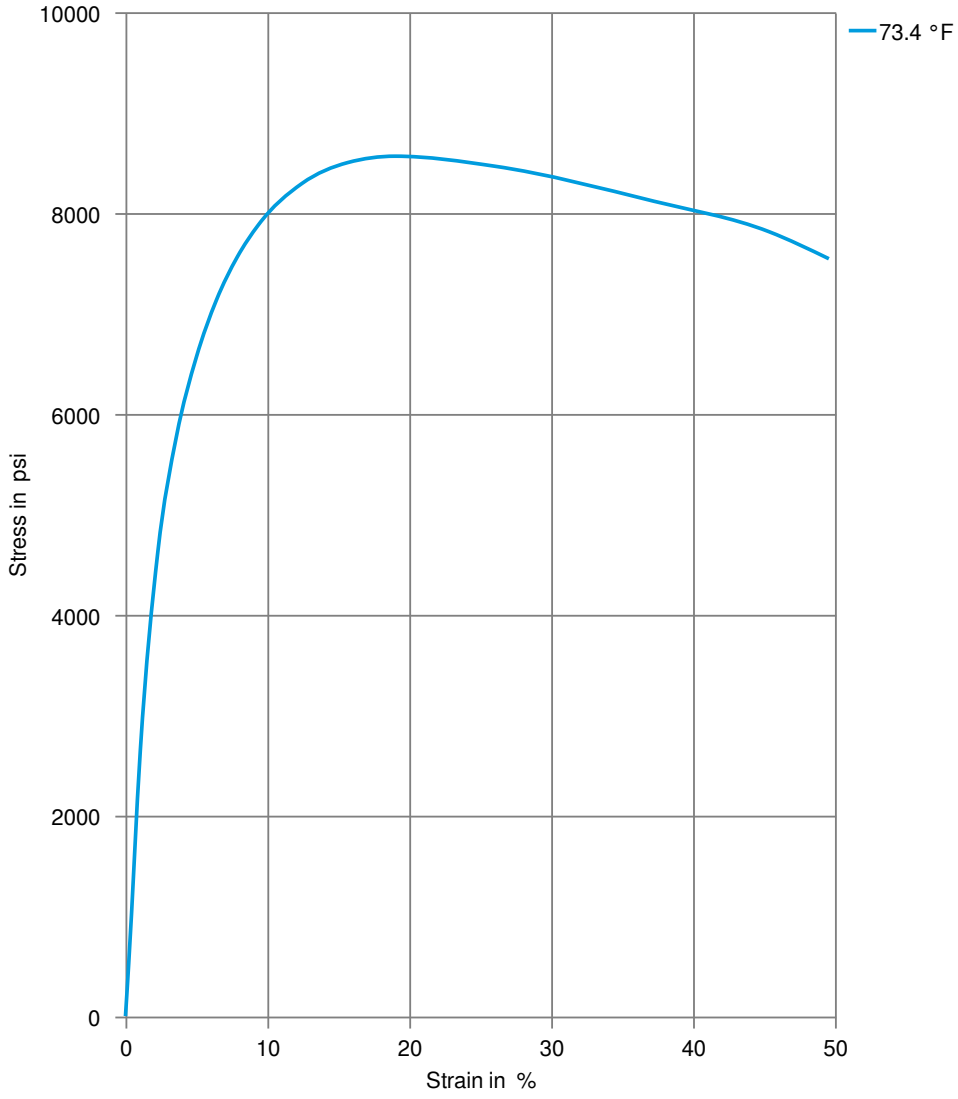
Stress-strain (dry)



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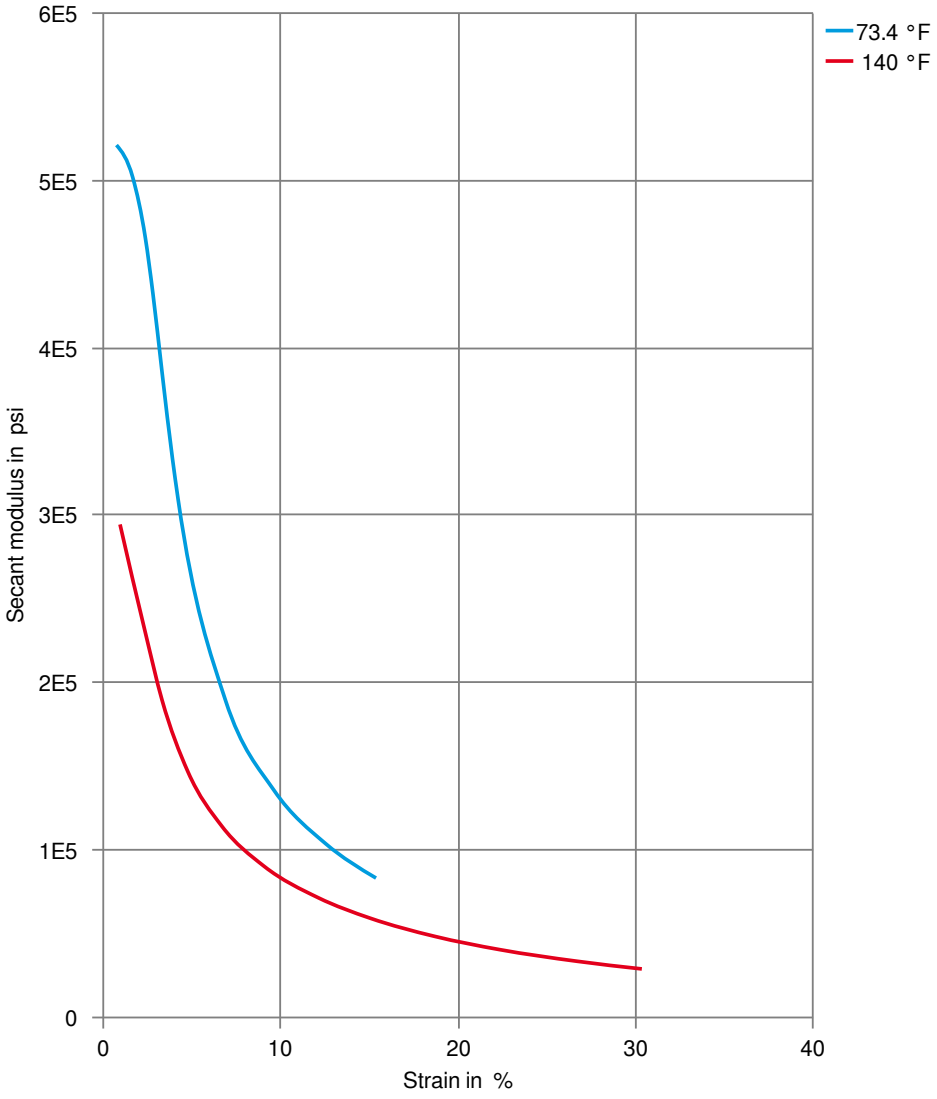
Stress-strain (cond.)



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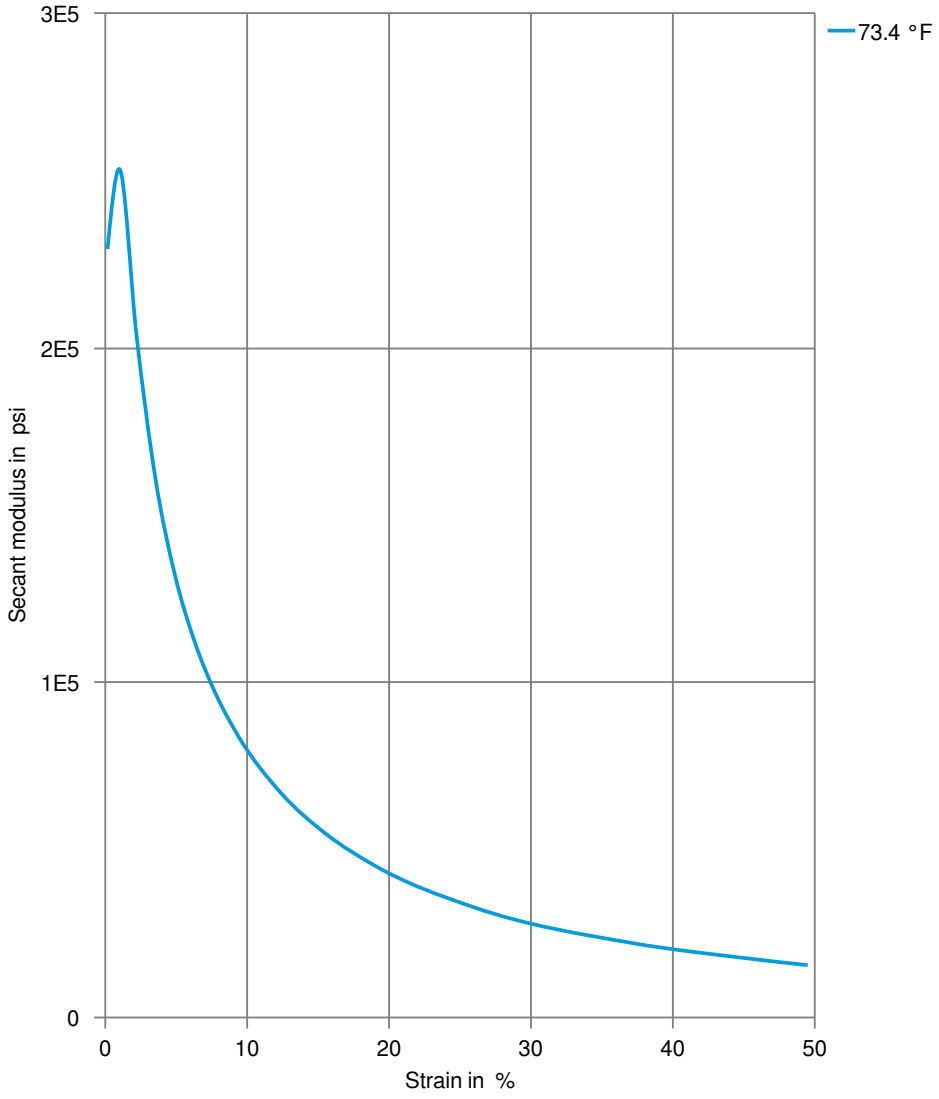
Secant modulus-strain (dry)



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Secant modulus-strain (cond.)



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

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