CELANYL® A3 HH J10 GF13 NC 1102/E

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Car industry, Household appliances, Electrical devices.

Product information

Resin Identification	PA66-I-GF13		ISO 1043
Part Marking Code	>PA66-I-GF13<		ISO 11469
Continuous Service Temperature	266	°F	IEC 60216-1

Rheological properties

	dry/cond.		
Molding shrinkage, parallel	0.6 / -	%	ISO 294-4, 2577
Molding shrinkage range, parallel	0.4 - 0.7	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / -	%	ISO 294-4, 2577
Molding shrinkage range, normal	0.7 - 1	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	754000 / 435000	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	16000 / 10200	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	5 / 10	%	ISO 527-1/-2
Flexural modulus	711000 / 392000	psi	ISO 178
Flexural strength	25400 / 13800	psi	ISO 178
Charpy impact strength, 23°C	33.3 / >80	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	5.71 / 9.51	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23°C	4.76 / -	ftlb/in²	ISO 180/1A

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	504 / *	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	455 / *	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	491 / *	°F	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.0315 / *	in	IEC 60695-11-10
Glow Wire Flammability Index, 0.75mm	1200 / -	°F	IEC 60695-2-12
Glow Wire Flammability Index, 3.0mm	1200 / -	°F	IEC 60695-2-12

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.7 / *	%	Sim. to ISO 62
Water absorption, 2mm	6.2 / *	%	Sim. to ISO 62
Density	0.0433 / -	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	563	°F
Min. melt temperature	545	°F

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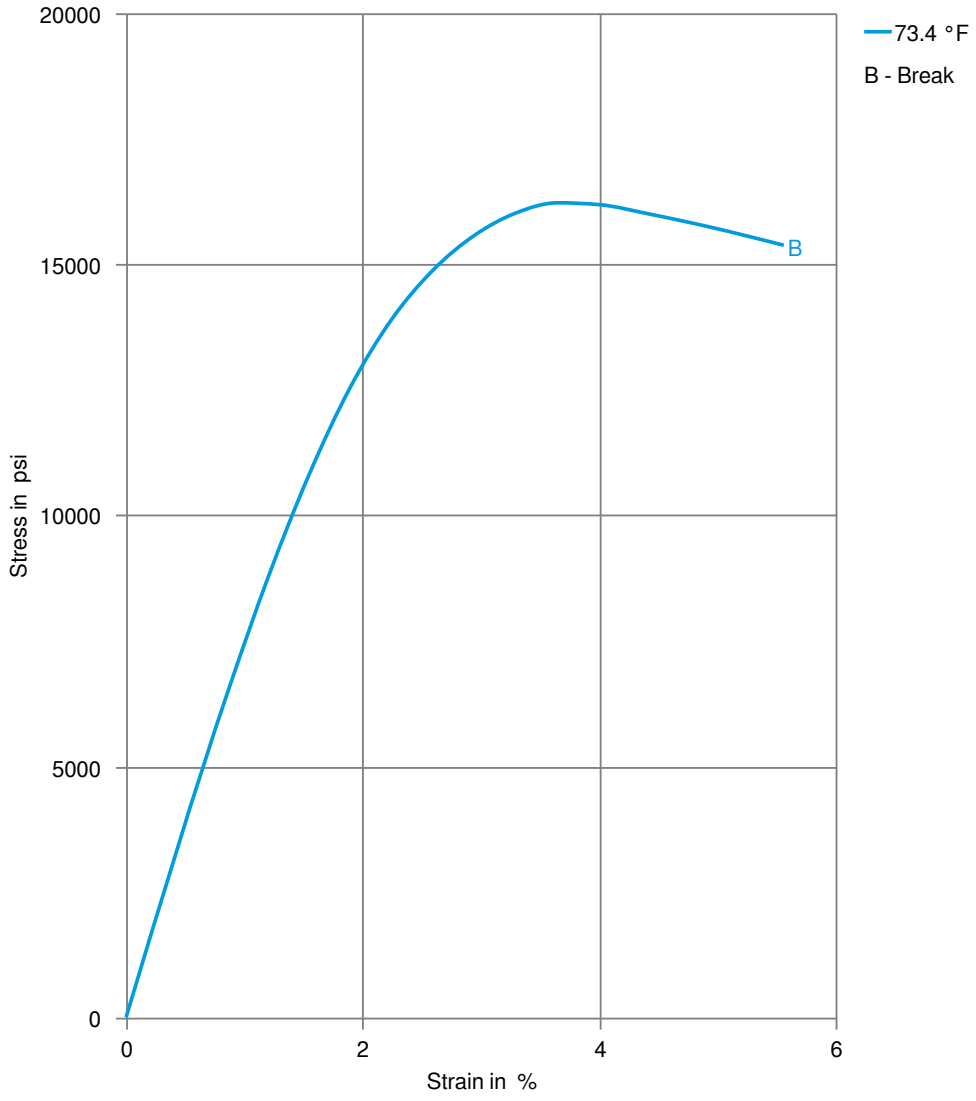
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Max. melt temperature	581 °F
Max. screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	212 °F
Min. mold temperature	158 °F
Max. mold temperature	248 °F

Characteristics

Processing	Injection Molding
Special characteristics	High impact or impact modified, Heat stabilized or stable to heat

Stress-strain (dry)

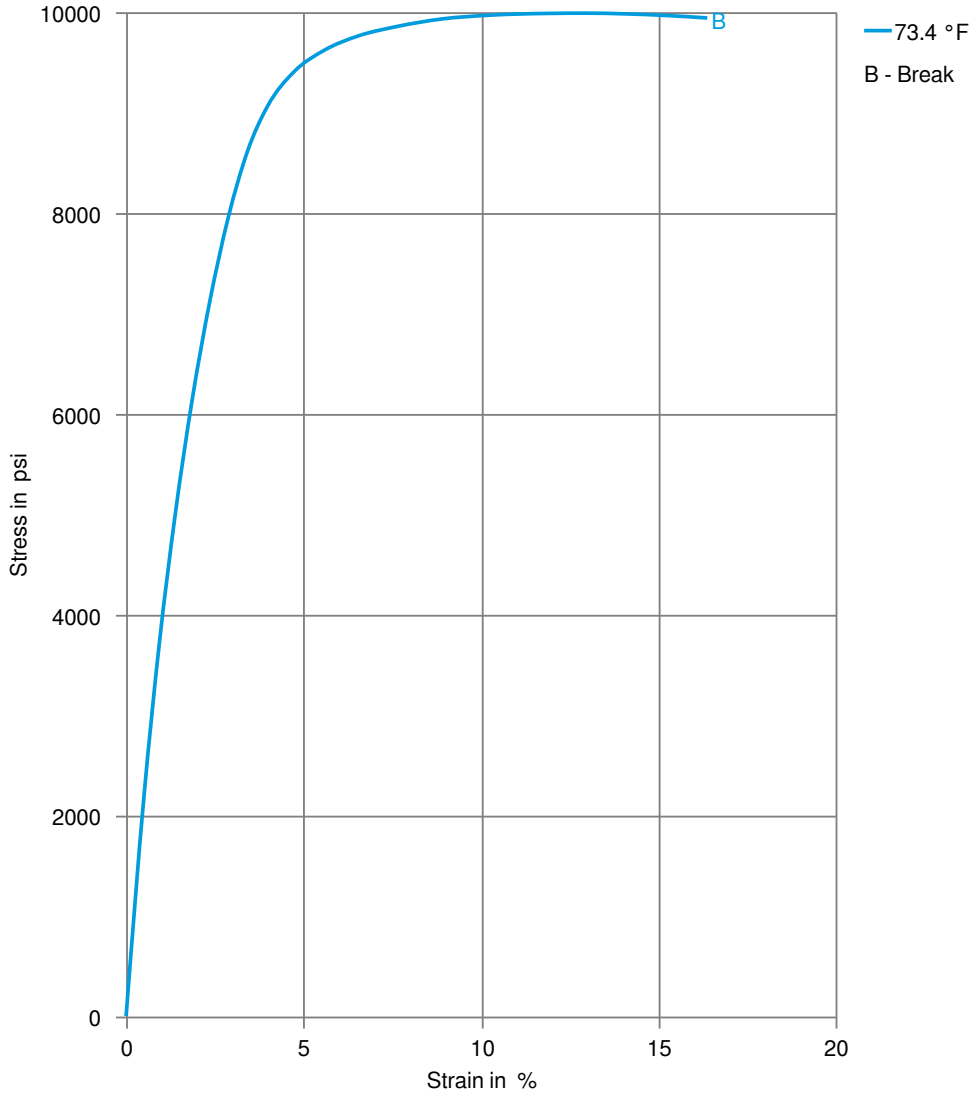


Revised: 2026-02-16 Source: Celanese Materials Database

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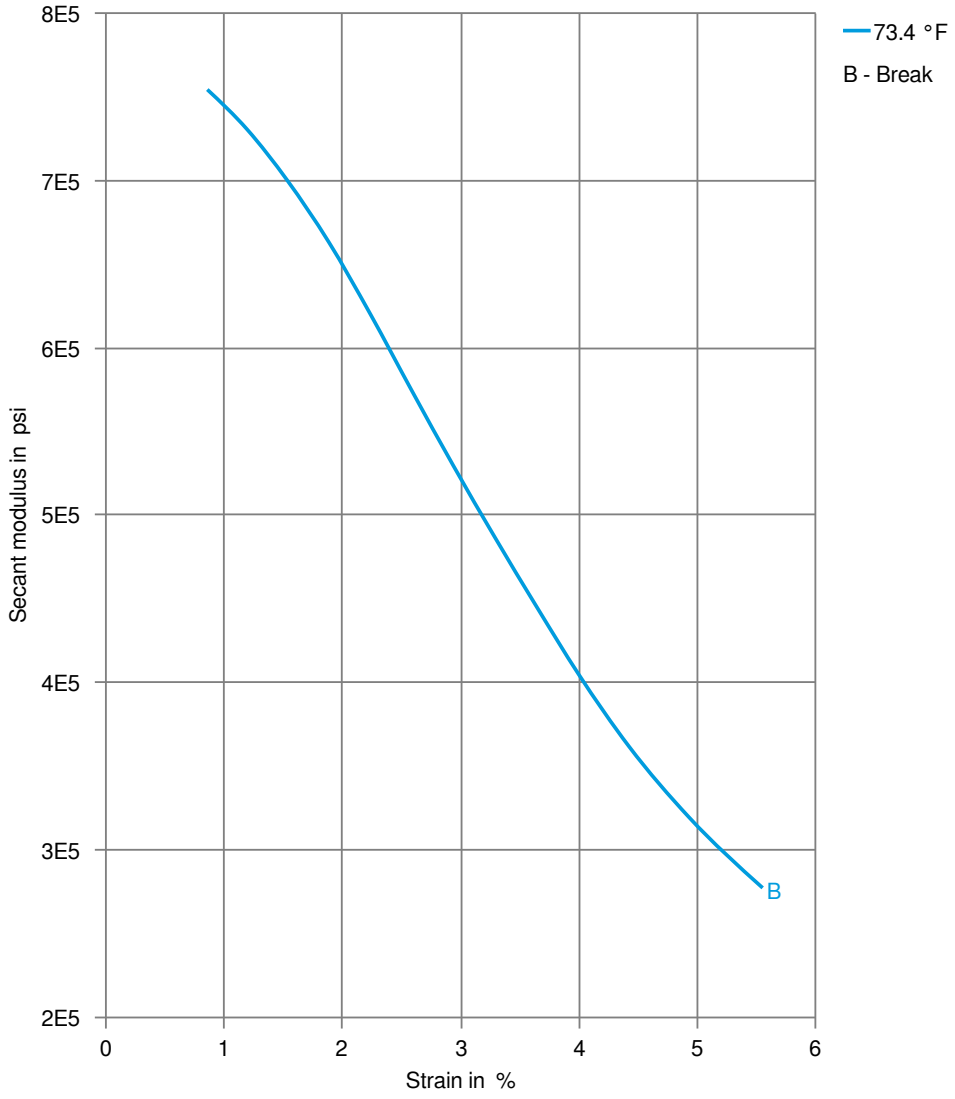
Stress-strain (cond.)



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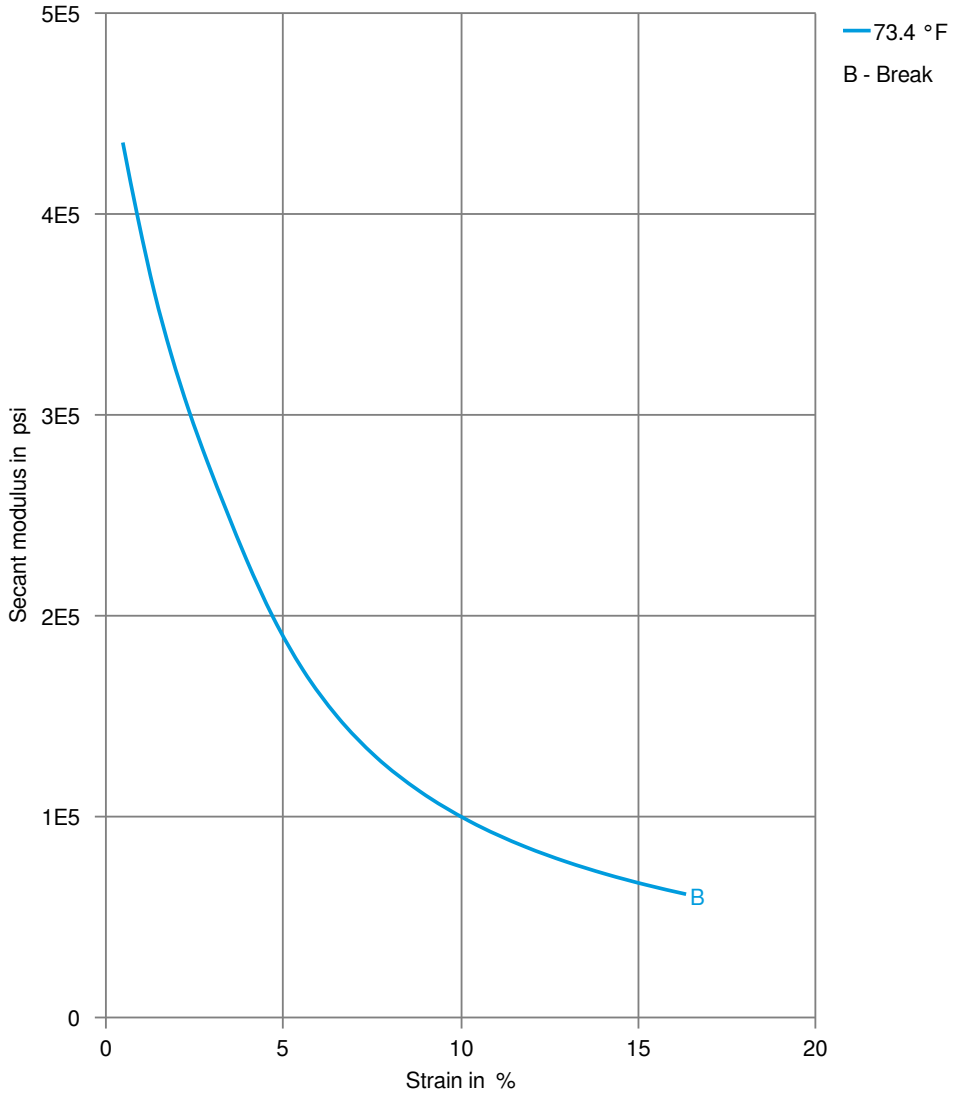
Secant modulus-strain (dry)



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Secant modulus-strain (cond.)



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