CELANYL® A3 HH GCF2010 BK 9005/1

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Product information

Resin Identification	PA66-(CF+GF)30	ISO 1043
Part Marking Code	>PA66-(CF+GF)30<	ISO 11469

Typical mechanical properties

	dry/cond.		
Tensile modulus	2.12E6 / -	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	30500 / -	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.3 / -	%	ISO 527-1/-2
Flexural modulus	2E6 / -	psi	ISO 178
Flexural strength	43500 / -	psi	ISO 178
Charpy impact strength, 23 °C	31.3 / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23 °C	3.81 / -	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23 °C	4.76 / -	ftlb/in²	ISO 180/1A
Izod impact strength, 23 °C	26.8 / -	ftlb/in²	ISO 180/1U

Thermal properties

Thermal conductivity, flow	1.46	W/(m K)	ISO 22007-2
Thermal conductivity, crossflow	0.82	W/(m K)	ISO 22007-2
Thermal conductivity, through plane	0.65	W/(m K)	ISO 22007-2

Physical/Other properties

	dry/cond.		
Density	0.048 / -	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
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

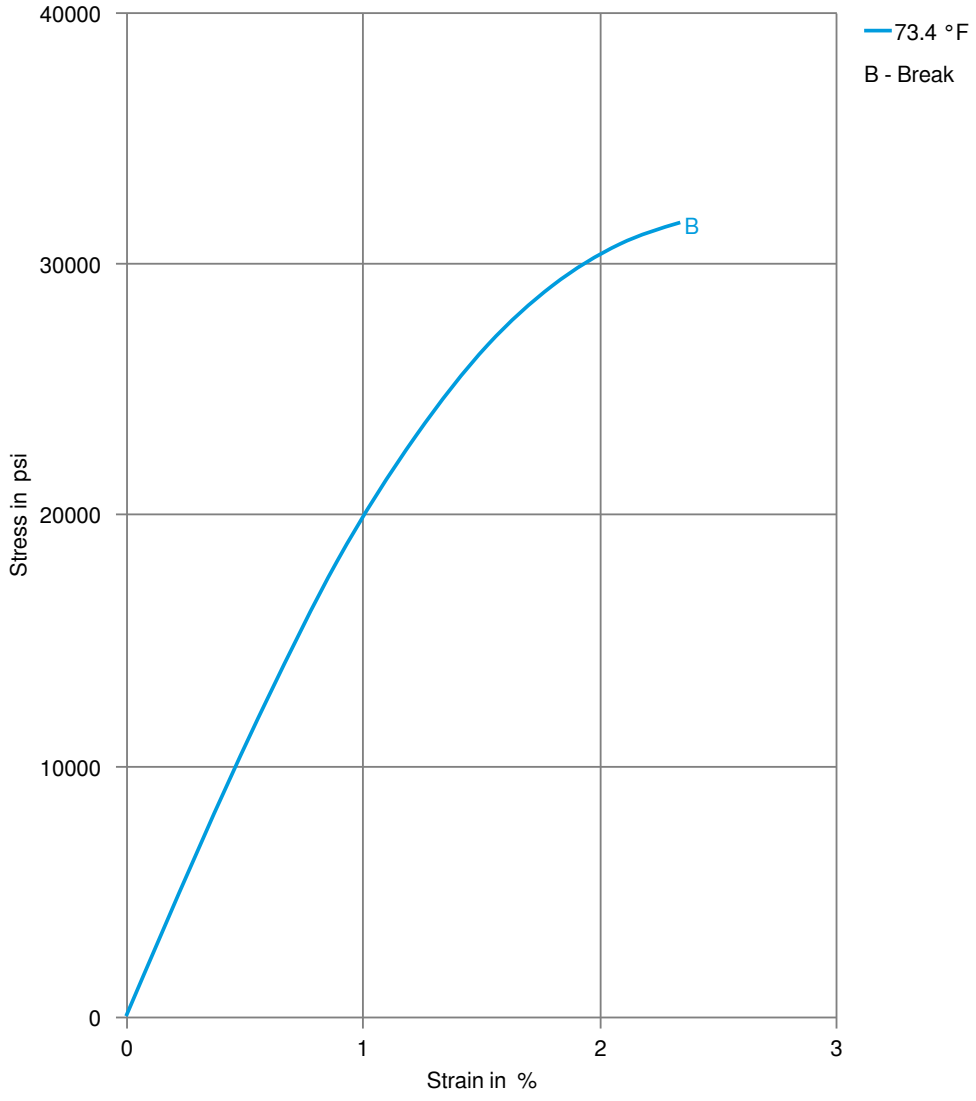
Characteristics

Processing	Injection Molding
Special characteristics	Anti-static, Static dissipative, Heat stabilized or stable to heat, Laser Markable

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Stress-strain (dry)

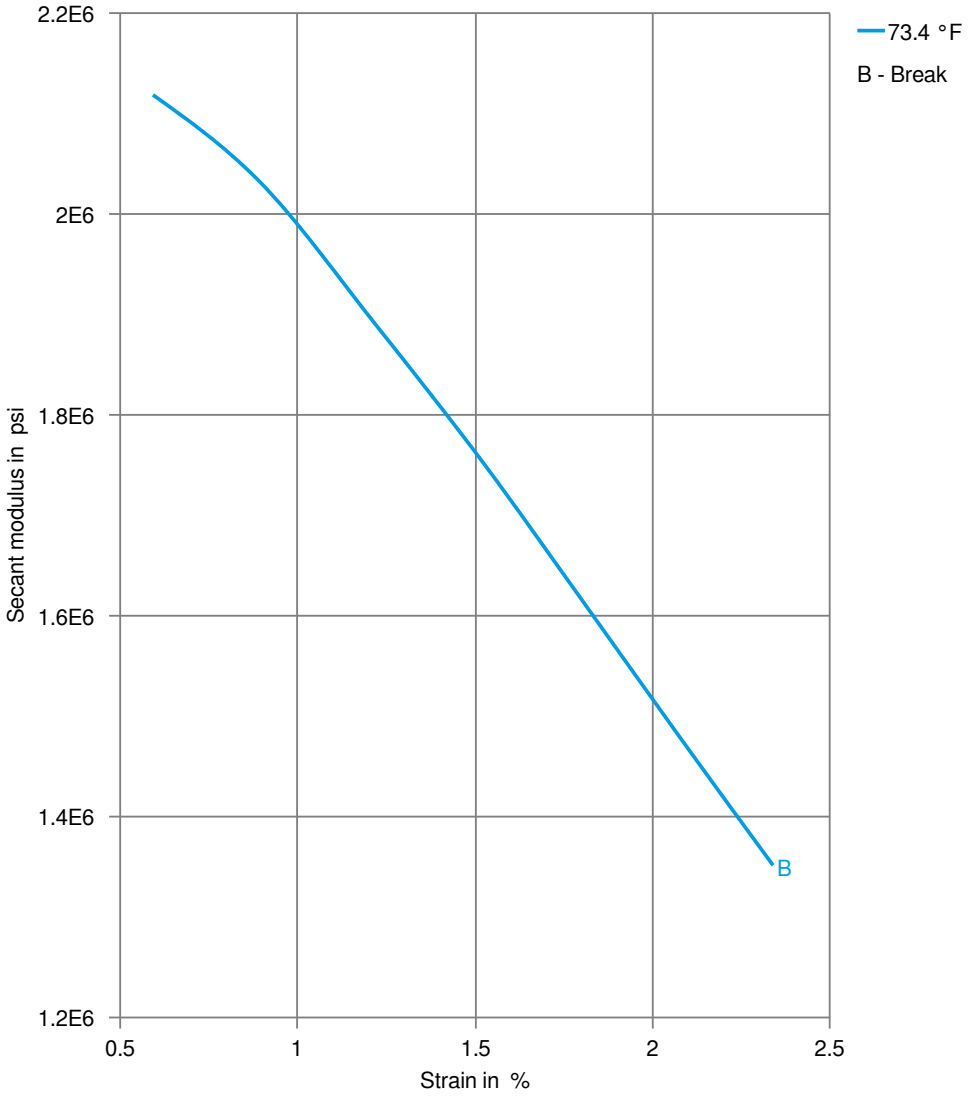


Revised: 2024-01-23 Source: Celanese Materials Database

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Secant modulus-strain (dry)



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