CELANYL® A3 GF60 BK 9005/N

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Car industry, Household appliances, Electrical devices.

Product information

Resin Identification	PA66-GF60		ISO 1043
Part Marking Code	>PA66-GF60<		ISO 11469
Continuous Service Temperature	230	°F	IEC 60216-1

Rheological properties

	dry/cond.		
Molding shrinkage, parallel	0.2 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4 / -	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	2.97E6 / 2.2E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	35500 / 25100	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.3 / 2.7	%	ISO 527-1/-2
Flexural modulus	2.83E6 / -	psi	ISO 178
Flexural strength	55100 / -	psi	ISO 178
Charpy impact strength, 23°C	33.3 / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	7.85 / -	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23°C	6.18 / -	ftlb/in²	ISO 180/1A
Poisson's ratio	0.371 / -[C]		

[C]: Calculated

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	500 / *	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	491 / *	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.09[1] / *	E-4/°F	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	0.529[1] / *	E-4/°F	ISO 11359-1/-2

[1]: Temperature range: -30°C to 150°C

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.0630 / *	in	IEC 60695-11-10
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.0315 / *	in	IEC 60695-11-10

Electrical properties

	dry/cond.		
Electric strength	559 / -	kV/in	IEC 60243-1

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	0.8 / *	%	Sim. to ISO 62
Water absorption, 2mm	3.2 / *	%	Sim. to ISO 62
Density	0.0614 / -	lb/in³	ISO 1183

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Emissions

Odor test	4	class	VDA 270

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

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Stellantis - Chrysler	MS.50017 / CPN-5476	Black;ASTMD6779PA0110G60A67480

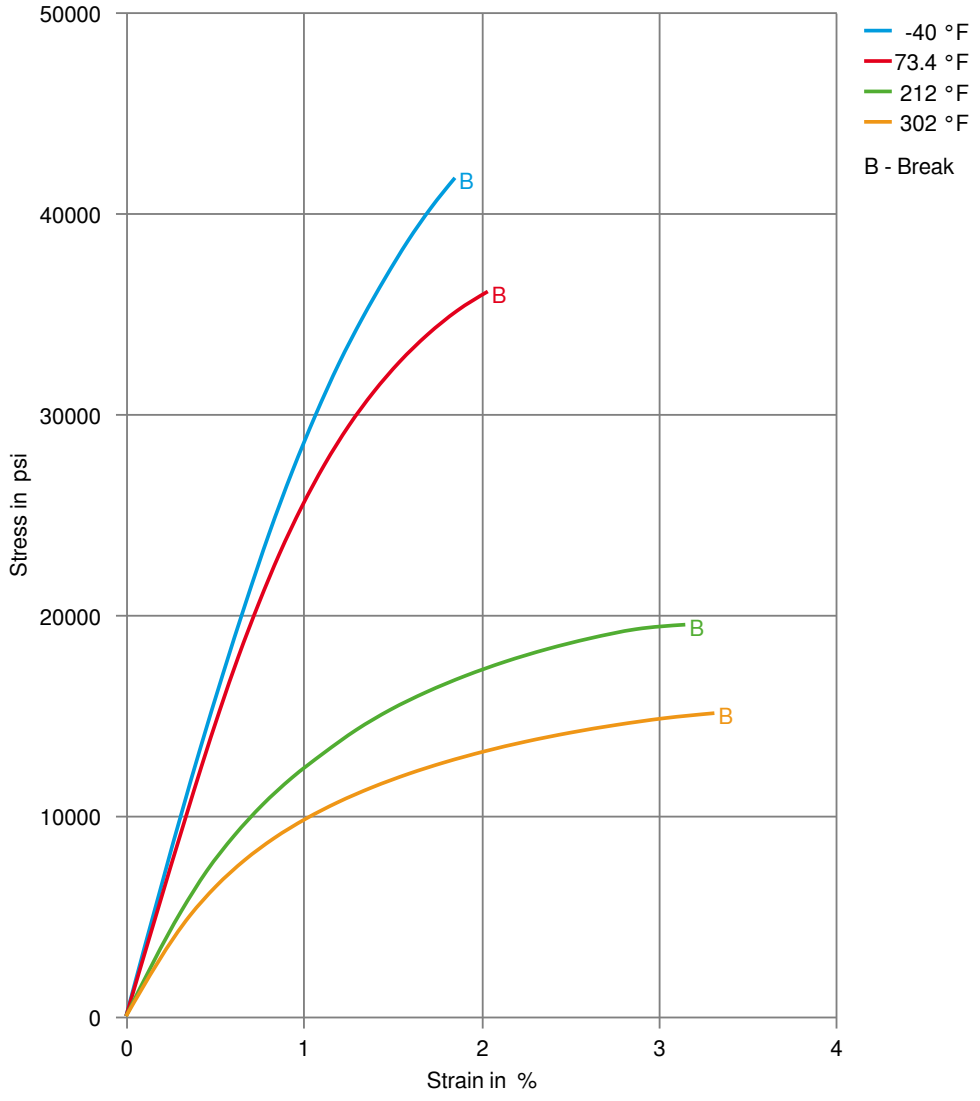
Characteristics

Processing	Injection Molding
Special characteristics	Heat stabilized or stable to heat, Specialty appearance, High Flow

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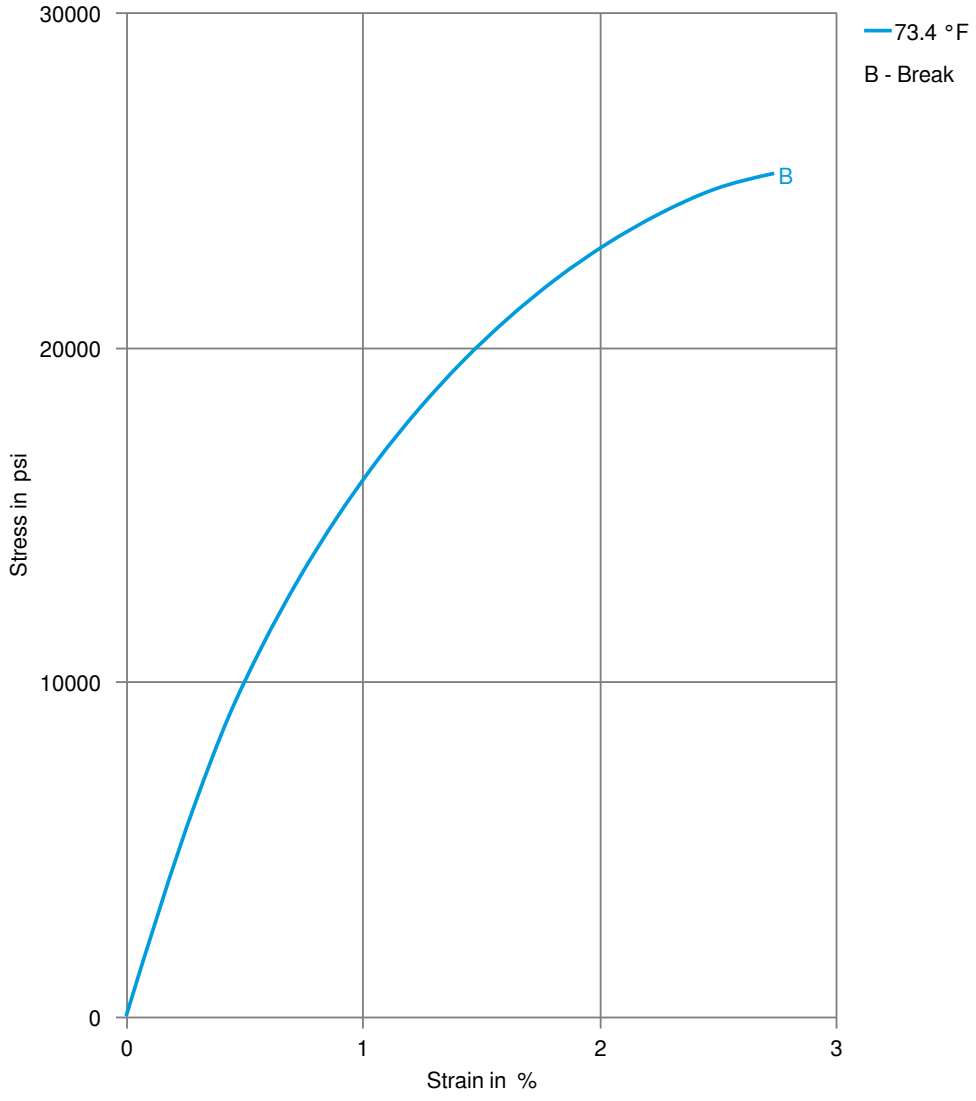
Stress-strain (dry)



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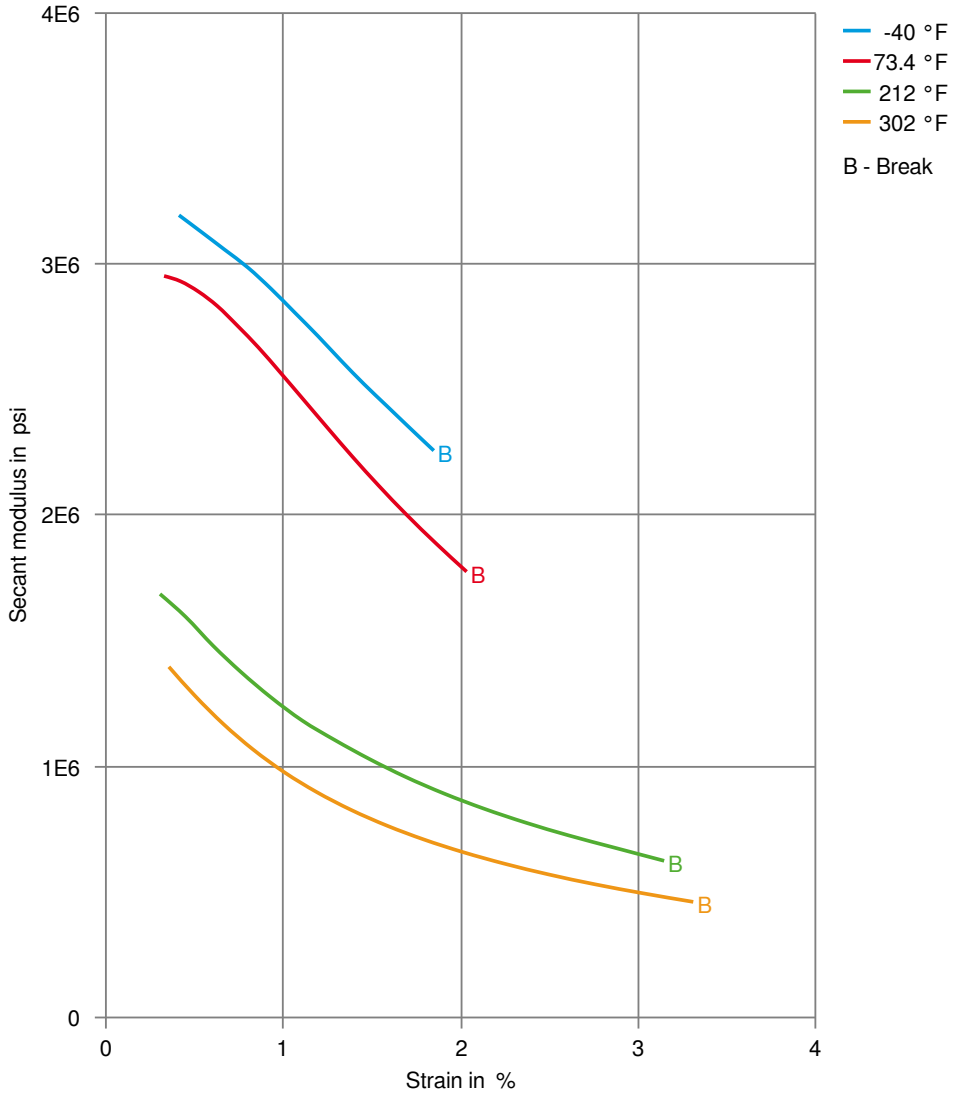
Stress-strain (cond.)



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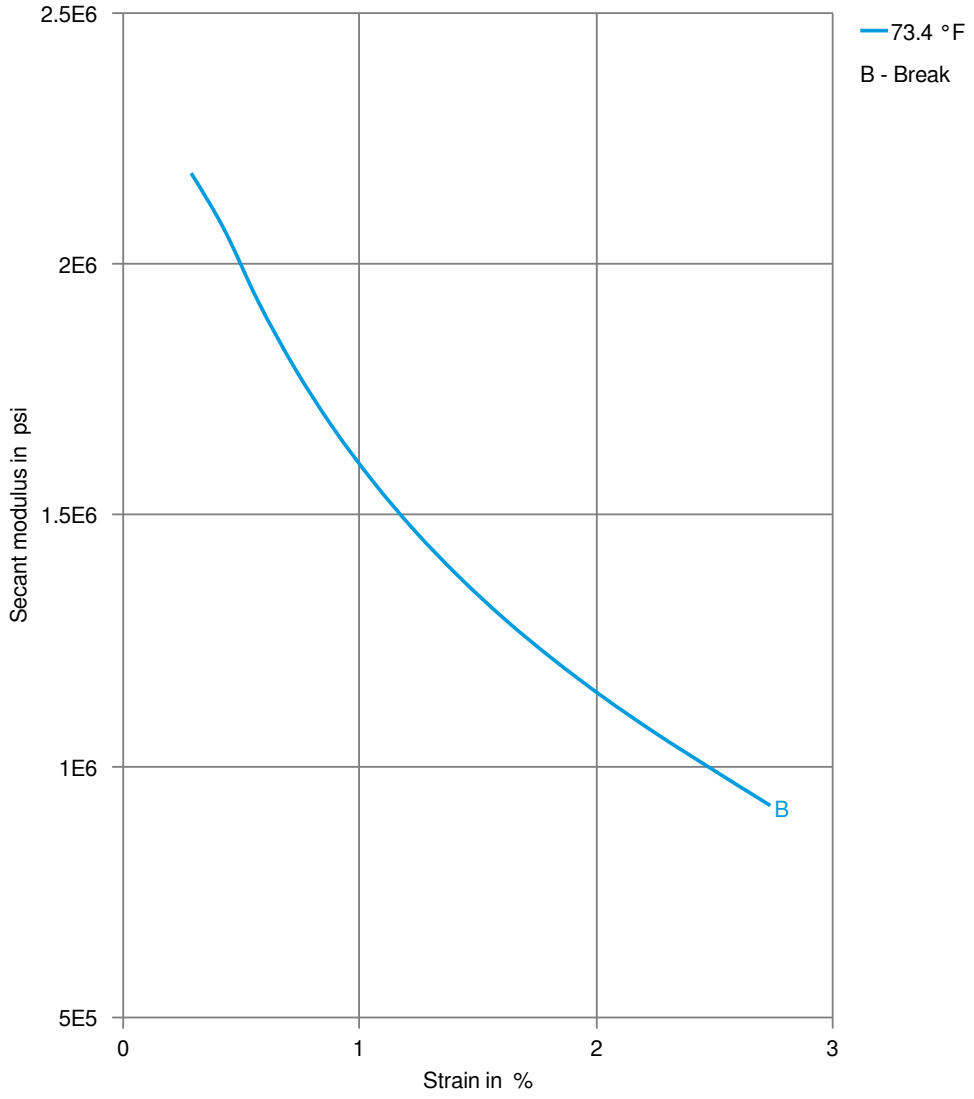
Secant modulus-strain (dry)



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Secant modulus-strain (cond.)



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