Celanese
The chemistry inside innovation™

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	14600 / -	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	210 / -	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.3 / -	%	ISO 527-1/-2
Flexural modulus	13800 / -	MPa	ISO 178
Flexural strength	300 / -	MPa	ISO 178
Charpy impact strength, 23 °C	65.7 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23 °C	8 / -	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23 °C	10 / -	kJ/m²	ISO 180/1A
Izod impact strength, 23 °C	56.4 / -	kJ/m²	ISO 180/1U
Poisson's ratio	0.33 / -[C]		

[C]: Calculated

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	1330 / -	kg/m³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	80	°C
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.15	%
Melt Temperature Optimum	295	°C
Min. melt temperature	285	°C
Max. melt temperature	305	°C
Screw tangential speed	≤0.2	m/s
Mold Temperature Optimum	100	°C
Min. mould temperature	70	°C
Max. mould temperature	120	°C

Characteristics

Processing	Injection Moulding
Special characteristics	Static dissipative, Heat stabilised or stable to heat, Laser Markable

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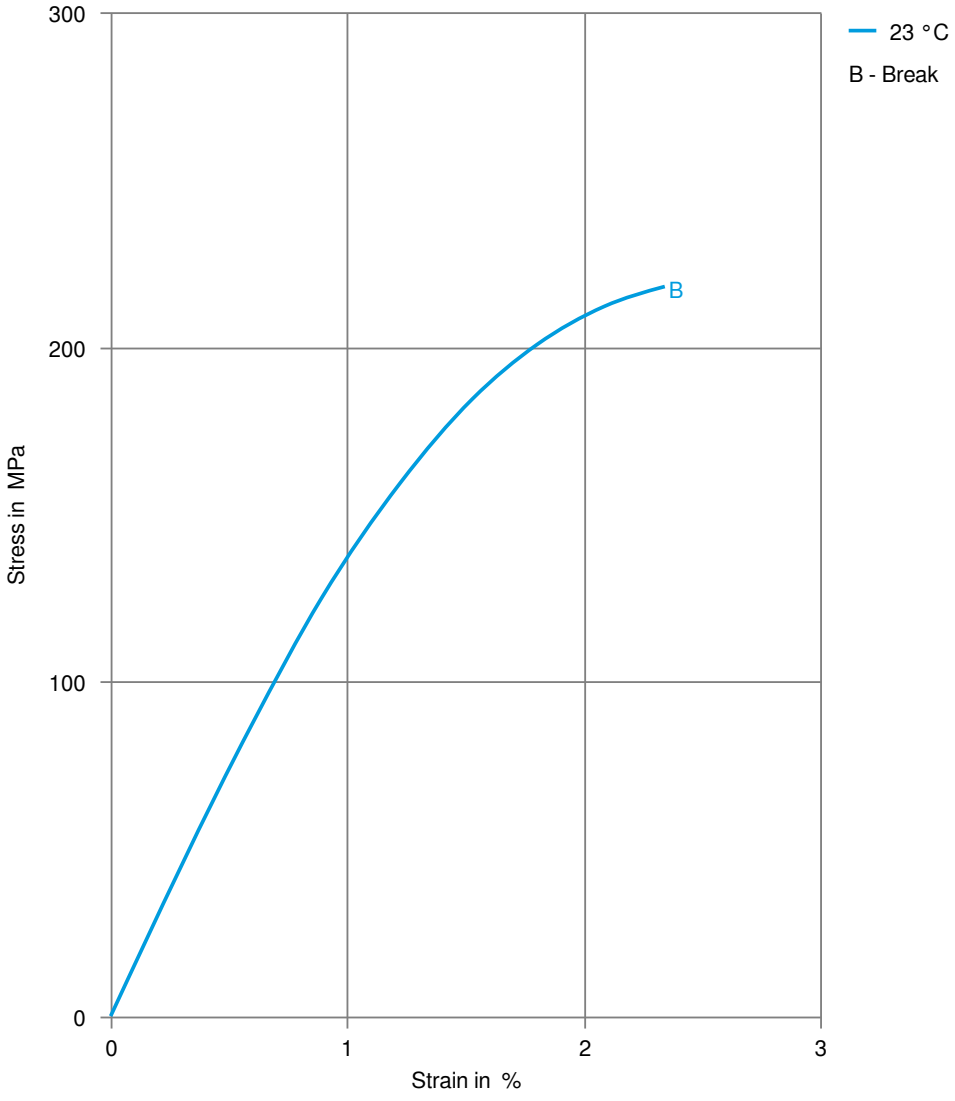
Stress-strain (dry)



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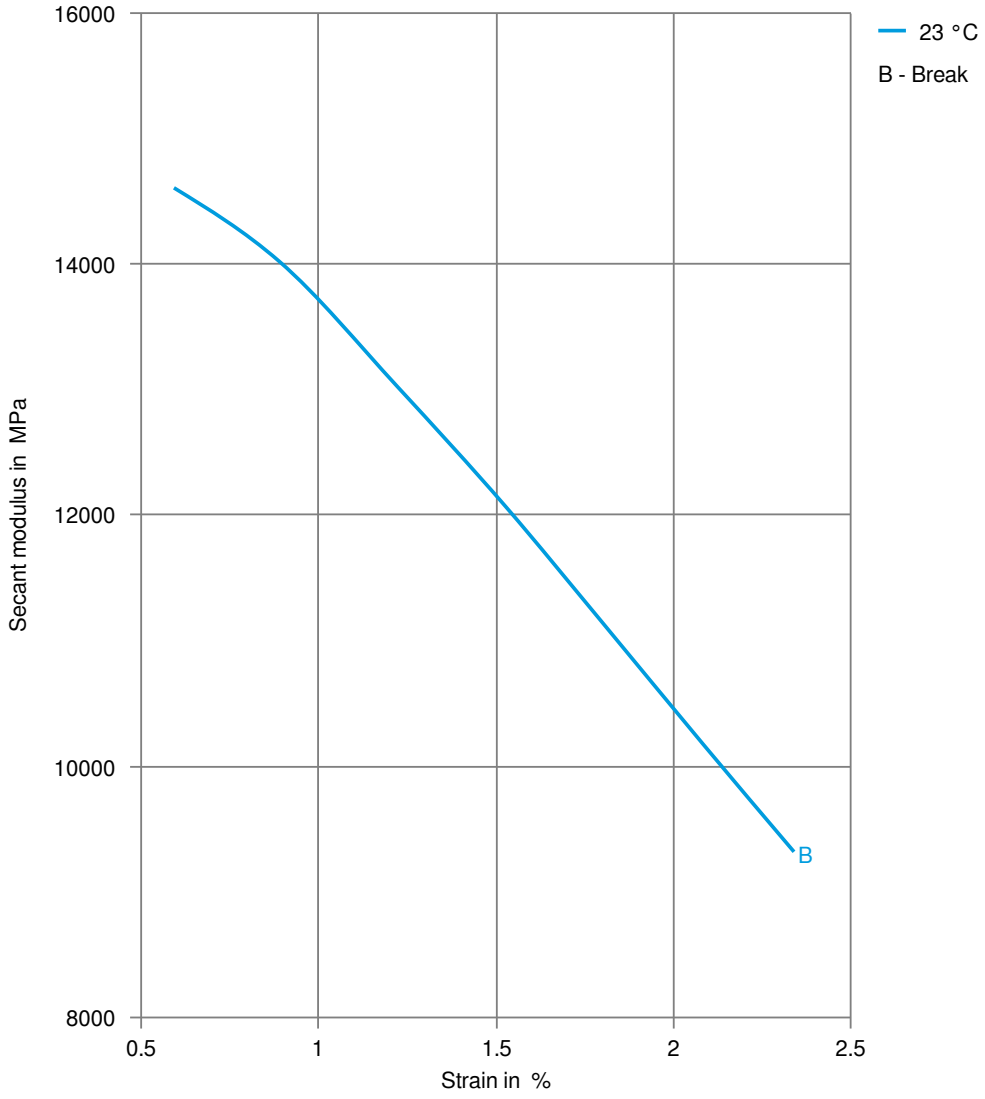
Secant modulus-strain (dry)



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