



40% Long glass fiber reinforced, heat stabilized, Nylon 6/6

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1 Toddot information				
Resin Identification	PA66-LGF40		ISO 1043	
Part Marking Code	>PA66-LGF40<		ISO 11469	
Typical mechanical properties	dry/cond.			
Tensile modulus	13300/11000	MPa	ISO 527-1/-2	
Tensile stress at break, 5mm/min	220/162	MPa	ISO 527-1/-2	
Tensile strain at break, 5mm/min	1.9/2.1	%	ISO 527-1/-2	
Flexural modulus	11900/9000	MPa	ISO 178	
Flexural strength	350/250	MPa	ISO 178	
Charpy impact strength, 23°C	67/74	kJ/m²	ISO 179/1eU	
Charpy impact strength, -30°C	61/-	kJ/m²	ISO 179/1eU	
Charpy notched impact strength, 23°C	38/30	kJ/m²	ISO 179/1eA	
Charpy notched impact strength, -30°C	31/-	kJ/m²	ISO 179/1eA	
Poisson's ratio	0.33/- ^[C]			
[C]: Calculated				
Thermal properties	dry/cond.			
Temperature of deflection under load, 1.8 MPa	259/*	°C	ISO 75-1/-2	
Temperature of deflection under load, 8 MPa	242/*	°C	ISO 75-1/-2	
Coefficient of linear thermal expansion	17/*	E-6/K	ISO 11359-1/-2	
(CLTE), parallel	,	_ 0///		
Coefficient of linear thermal expansion (CLTE),	94/*	E-6/K	ISO 11359-1/-2	
normal	• .,	_ 0///		
Physical/Other properties	dry/cond.			
	· ·		ISO 1183	
Density	1400/-	kg/m³	150 1163	
Injection				
Drying Recommended	yes			
Drying Temperature	•	°C		

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Drying Temperature	80	°C
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.2	%
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
Hold pressure range	50 - 100	MPa

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Revised: 2025-05-15 Source: Celanese Materials Database





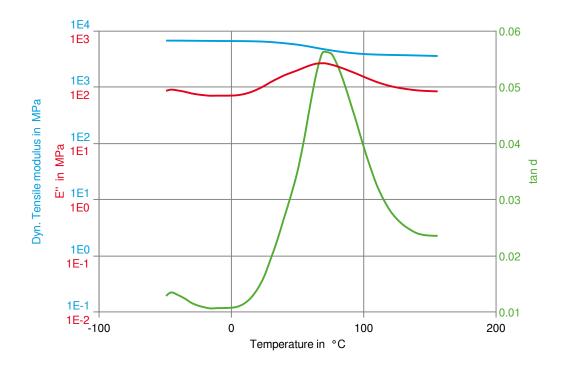
Characteristics

Processing Injection Moulding

Delivery form Pellets

Special characteristics Heat stabilised or stable to heat

Dynamic Tensile modulus-temperature (dry)



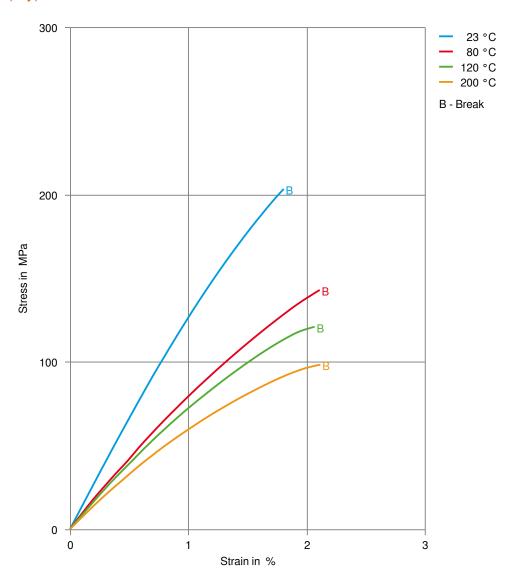
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Stress-strain (dry)

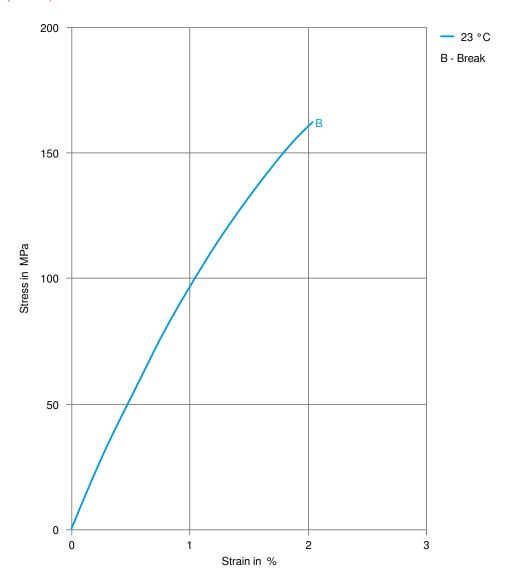


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Stress-strain (cond.)

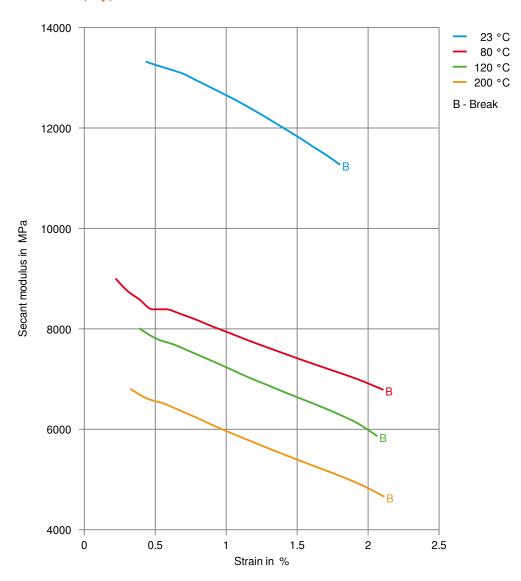


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Secant modulus-strain (dry)

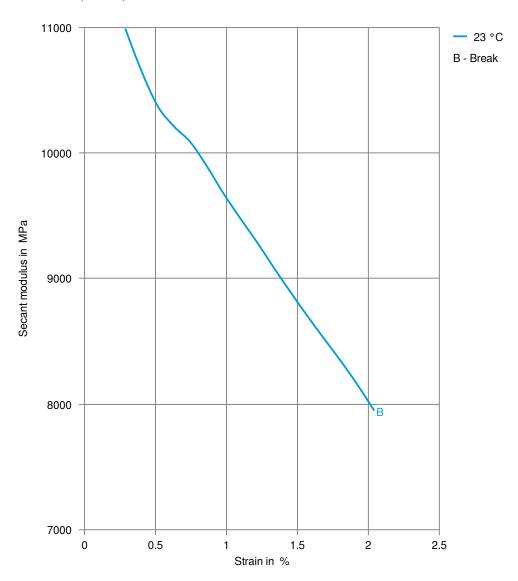


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Secant modulus-strain (cond.)



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