

CELANYL® B2 HH GF60 BK 9005/E

CELANYL®

Suitable for technical uses demanding the highest stiffness combined with long term heat ageing resistance.

Product information

Resin Identification	PA6-GF60	ISO 1043
Part Marking Code	>PA6-GF60<	ISO 11469

Rheological properties

Moulding shrinkage range, parallel	0.1 - 0.4 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.4 - 0.7 %	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	20000 / 15000	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	220 / 140	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2 / 3.8	%	ISO 527-1/-2
Flexural modulus	19000 / -	MPa	ISO 178
Flexural strength	320 / -	MPa	ISO 178
Charpy impact strength, 23 °C	75 / -	kJ/m ²	ISO 179/1eU
Izod notched impact strength, 23 °C	15 / -	kJ/m ²	ISO 180/1A
Izod impact strength, 23 °C	>80 / -	kJ/m ²	ISO 180/1U
Poisson's ratio	0.33 / 0.33 ^[C]		

[C]: Calculated

Thermal properties

	dry/cond.		
Melting temperature, 10 °C/min	225 / *	°C	ISO 11357-1/-3
Temperature of deflection under load, 0.45 MPa	220 / *	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB / *	class	IEC 60695-11-10

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1 / *	%	Sim. to ISO 62
Water absorption, 2mm	3.4 / *	%	Sim. to ISO 62
Density	1680 / -	kg/m ³	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	260 °C
Min. melt temperature	240 °C
Max. melt temperature	290 °C
Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	80 °C
Min. mould temperature	60 °C
Max. mould temperature	120 °C

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Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	Heat stabilised or stable to heat, Specialty appearance, High Flow

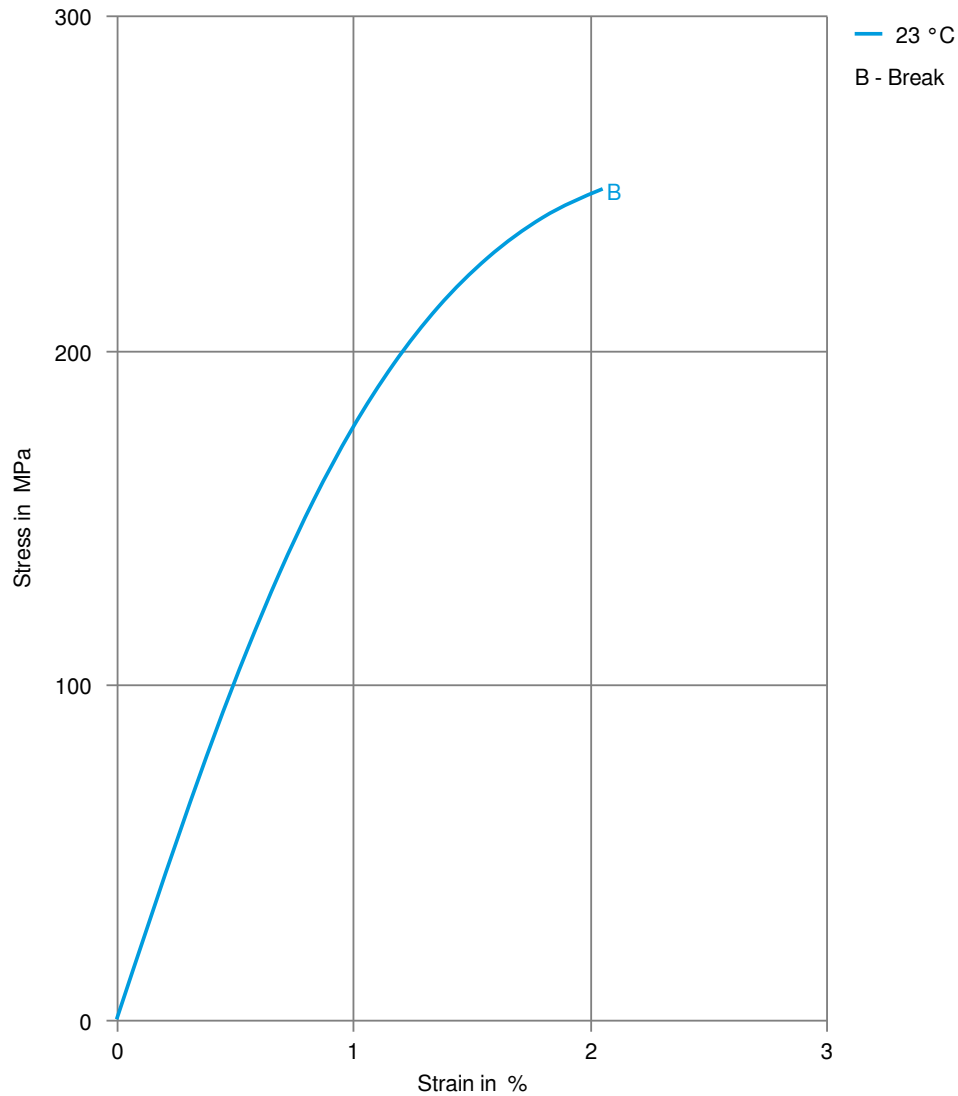
Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Stellantis - Chrysler	MS.50017 / CPN-4729	Technical Black (BK9005)
Stellantis - Chrysler	PA6.GF50.14100F.15I.HS	Technical Black (BK9005)

Stress-strain (dry)

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Secant modulus-strain (dry)

