

CELANYL® B3 GF15 NC 1102

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General purpose grade, suitable for any technical application, improved flowability.

Product information

Resin Identification	PA6-GF15	ISO 1043
Part Marking Code	>PA6-GF15<	ISO 11469
Continuous Service Temperature	95 °C	IEC 60216-1

Rheological properties

	dry/cond.		
Melt volume-flow rate	10/*	cm ³ /10min	ISO 1133
Temperature	230/*	°C	
Load	5/*	kg	
Viscosity number	160/*	cm ³ /g	ISO 307, 1628
Moulding shrinkage range, parallel	0.3 - 0.7	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.7 - 1.1	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	5600/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	130/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	5/-	%	ISO 527-1/-2
Flexural modulus	5200/-	MPa	ISO 178
Flexural strength	180/-	MPa	ISO 178
Charpy impact strength, 23°C	65/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	6.5/-	kJ/m ²	ISO 179/1eA
Ball indentation hardness, H 961/30	180/-	MPa	ISO 2039-1
Poisson's ratio	0.35/- ^[C]		

[C]: Calculated

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	225/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	210/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	220/*	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	0.8/*	mm	IEC 60695-11-10

Electrical properties

	dry/cond.		
Volume resistivity	1E16/-	Ohm.m	IEC 62631-3-1
Comparative tracking index	575/-		IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2/*	%	Sim. to ISO 62
Water absorption, 2mm	7.5/*	%	Sim. to ISO 62
Density	1220/-	kg/m ³	ISO 1183

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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

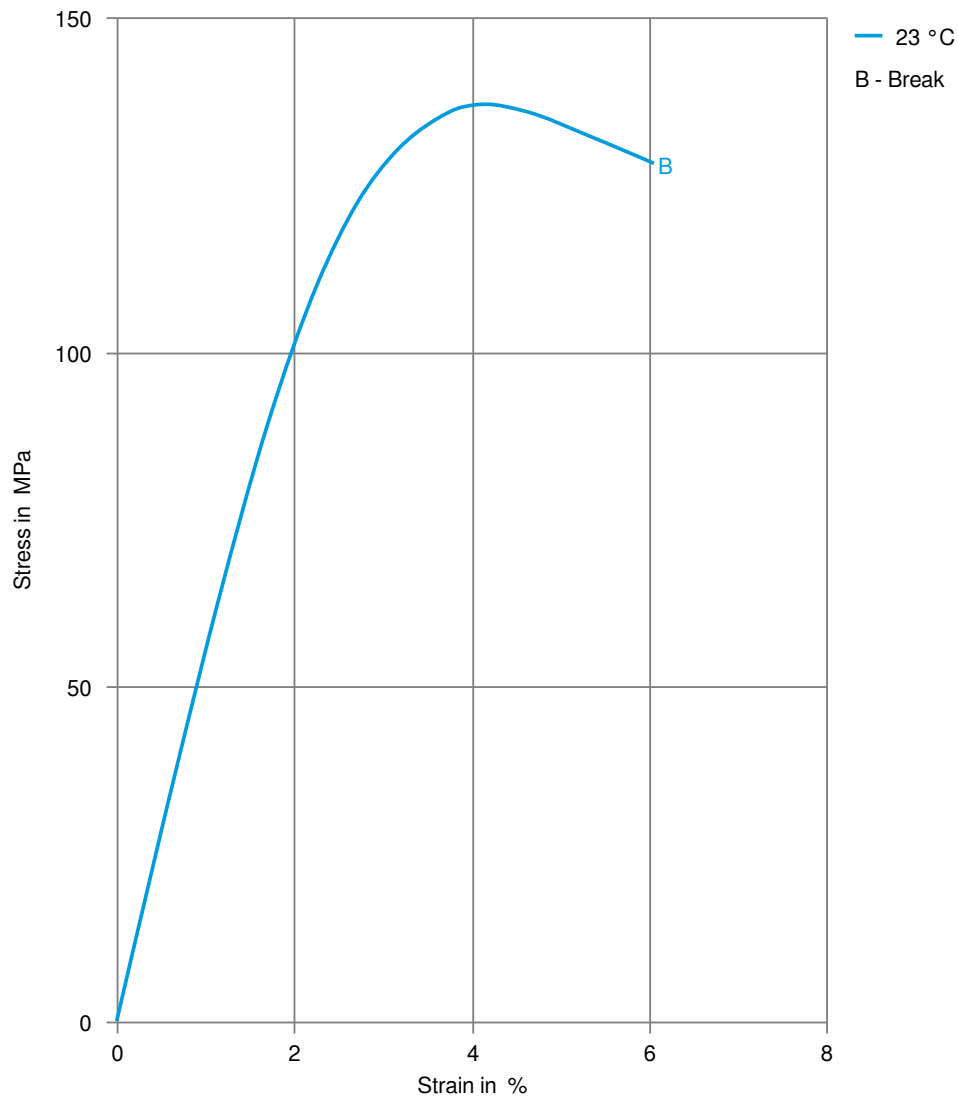
Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	High Flow

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Stress-strain (dry)



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Secant modulus-strain (dry)

