

CELANYL® B3 GB15 BK 9005/U

CELANYL®

General purpose grade, suitable for technical applications.

Product information

Resin Identification	PA6-GB15	ISO 1043
Part Marking Code	>PA6-GB15<	ISO 11469
Continuous Service Temperature	110 °C	IEC 60216-1

Rheological properties

Moulding shrinkage range, parallel	0.9 - 1.3 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.9 - 1.3 %	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.	
Tensile modulus	3600 / -	MPa
Tensile stress at break, 5mm/min	70 / -	MPa
Tensile strain at break, 5mm/min	6 / -	%
Charpy impact strength, 23 °C	25 / -	kJ/m ²
Charpy notched impact strength, 23 °C	3.2 / -	kJ/m ²
Poisson's ratio	0.36 / - ^[C]	
[C]: Calculated		

Thermal properties

	dry/cond.	
Melting temperature, 10 °C/min	225 / *	°C

Flammability

	dry/cond.	
Burning Behav. at 1.5mm nom. thickn.	HB / *	class

Physical/Other properties

	dry/cond.	
Humidity absorption, 2mm	2.3 / *	%
Water absorption, 2mm	8 / *	%
Density	1220 / -	kg/m ³

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	High Flow, Low Warpage