

CELANYL® B3 GB30 BK 9005

CELANYL®

General purpose grade, suitable for technical applications.

Product information

Resin Identification	PA6-GB30	ISO 1043
Part Marking Code	>PA6-GB30<	ISO 11469
Continuous Service Temperature	110 °C	IEC 60216-1

Rheological properties

	dry/cond.		
Melt volume-flow rate	20/*	cm ³ /10min	ISO 1133
Temperature	230/*	°C	
Load	5/*	kg	
Viscosity number	140/*	cm ³ /g	ISO 307, 1628
Moulding shrinkage range, parallel	0.8 - 1.2	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.8 - 1.2	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	4300/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	68/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	5.5/-	%	ISO 527-1/-2
Charpy impact strength, 23°C	30/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	3/-	kJ/m ²	ISO 179/1eA
Poisson's ratio	0.36/- ^[C]		

[C]: Calculated

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	225/*	°C	ISO 11357-1/-3

Flammability

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

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.7/*	%	Sim. to ISO 62
Water absorption, 2mm	5.8/*	%	Sim. to ISO 62
Density	1360/-	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

CELANYL® B3 GB30 BK 9005

CELANYL®

Max. mould temperature

120 °C

Characteristics

Processing

Injection Moulding

Delivery form

Granules

Special characteristics

High Flow, Low Warpage