Celanese
The chemistry inside innovation™

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

Celanese
The chemistry inside innovation™

CELANYL® B3 GB30 BK 9005

CELANYL®

Max. mould temperature	120	°C

Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	High Flow, Low Warpage