

CELANYL® B3 HH J10 GF40 BK 9005/TG

CELANYL®

Suitable for any technical application, provide high rigidity and toughness. Improved surface quality.

Product information

Resin Identification	PA6-I-GF40	ISO 1043
Part Marking Code	>PA6-I-GF40<	ISO 11469
Continuous Service Temperature	120 °C	IEC 60216-1

Rheological properties

Moulding shrinkage range, parallel	0.2 - 0.5 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.5 - 0.8 %	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	10800/6000	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	165/110	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.5/8	%	ISO 527-1/-2
Charpy impact strength, 23°C	>80/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	20/30	kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	21/-	kJ/m ²	ISO 180/1A
Poisson's ratio	0.34/0.35 ^[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	195/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	210/*	°C	ISO 75-1/-2

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.3/*	%	Sim. to ISO 62
Water absorption, 2mm	4.6/*	%	Sim. to ISO 62
Density	1410/-	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	50 °C
Max. mould temperature	120 °C

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Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	High impact or impact modified, Heat stabilised or stable to heat