

CELANYL® B3 HH GF50 NC 1102/2

CELANYL®

Designed for demanding application, excellent mechanical performances, suitable for E&E parts.

Product information

Resin Identification	PA6-GF50	ISO 1043
Part Marking Code	>PA6-GF50<	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	16000/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	215/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3/-	%	ISO 527-1/-2
Flexural modulus	15500/-	MPa	ISO 178
Charpy impact strength, 23°C	95/-	kJ/m ²	ISO 179/1eU
Izod notched impact strength, 23°C	20/-	kJ/m ²	ISO 180/1A
Poisson's ratio	0.33/- ^[C]		

[C]: Calculated

Thermal properties

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

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.2/*	%	Sim. to ISO 62
Water absorption, 2mm	4.2/*	%	Sim. to ISO 62
Density	1560/-	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
Max. mould temperature	120 °C

Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	Heat stabilised or stable to heat