

CELANYL® A3 HH GF50 NC 1102/2B

CELANYL®

Designed for the best mechanical performance, high thermal resistance for any demanding application.

Product information

Resin Identification	PA6-(CF+GB)30	ISO 1043
Part Marking Code	>PA6-(CF+GB)30<	ISO 11469
Continuous Service Temperature	130 °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	16700 / -	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	238 / -	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5 / -	%	ISO 527-1/-2
Flexural modulus	16000 / -	MPa	ISO 178
Flexural strength	370 / -	MPa	ISO 178
Charpy impact strength, 23 °C	95 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23 °C	16.5 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30 °C	16 / -	kJ/m ²	ISO 179/1eA
Poisson's ratio	0.33 / - ^[C]		
[C]: Calculated			

Thermal properties

	dry/cond.		
Melting temperature, 10 °C/min	265 / *	°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	1.1 / *	%	Sim. to ISO 62
Water absorption, 2mm	4 / *	%	Sim. to ISO 62
Density	1570 / -	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	295 °C
Min. melt temperature	285 °C
Max. melt temperature	305 °C
Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	100 °C
Min. mould temperature	70 °C
Max. mould temperature	120 °C

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Characteristics

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