



CELANYL® A4 HH GF50 NC 1102

CELANYL®

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Resin Identification	PA66-GF50		ISO 1043
Part Marking Code	>PA66-GF50<		ISO 11469
Continuous Service Temperature	130	°C	IEC 60216-1
Rheological properties			
Moulding shrinkage range, parallel	0.1 - 0.3	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.3 - 0.6 %		ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	16000/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	210/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2/-	%	ISO 527-1/-2
Flexural modulus	15000/-	MPa	ISO 178
Flexural strength	340/-	MPa	ISO 178
Izod notched impact strength, 23°C	15/-	kJ/m²	ISO 180/1A
Izod impact strength, 23°C	75/-	kJ/m²	ISO 180/1U
Poisson's ratio	0.33/- ^[C]		
[C]: Calculated			
Thermal properties	dry/cond.		
Melting temperature, 10°C/min	260/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	255/*	°C	ISO 75-1/-2

Physical/Other properties

Humidity absorption, 2mm	1.2/*	%	Sim. to ISO 62
Water absorption, 2mm	4.3/*	%	Sim. to ISO 62
Density	1560/-	kg/m³	ISO 1183

dry/cond.

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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Revised: 2024-08-16 Source: Celanese Materials Database

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Characteristics

Processing Injection Moulding, Extrusion

Delivery form Granules

Special characteristics Heat stabilised or stable to heat

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