



CELANYL® A3 GB05 NC 1102/EB

CELANYL®

Injection molding grade, easy flowing, suitable for any technical application.

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Resin Identification	PA66-GB08	ISO 1043
Part Marking Code	>PA66-GB08<	ISO 11469

Rheological properties

Moulding shrinkage range, parallel	1.4 - 1.8 %	ISO 294-4, 2577
Moulding shrinkage range, normal	1.4 - 1.8 %	ISO 294-4, 2577

dry/cond.

Typical mechanical properties

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Tensile modulus	3500/-	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	75/-	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	4/-	%	ISO 527-1/-2
Charpy impact strength, 23°C	20/-	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	2/-	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	2.2/-	kJ/m²	ISO 180/1A
Izod impact strength, 23°C	15/-	kJ/m²	ISO 180/1U
Poisson's ratio	0.37/- ^[C]		

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	265/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	80/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	210/*	°C	ISO 75-1/-2

dry/cond.

dry/cond.

Physical/Other properties

Humidity absorption, 2mm	2.1/*	%	Sim. to ISO 62
Water absorption, 2mm	7.4/*	%	Sim. to ISO 62
Density	1170/-	kg/m³	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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Revised: 2024-08-16 Source: Celanese Materials Database

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Characteristics

Processing Injection Moulding

Delivery form Granules
Special characteristics High Flow

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