CELANYL® A3 GB30 NC 1102

CELANYL®

General purpose grade, easy processing, low warpage.

Product information

Resin Identification	PA66-GB30		ISO 1043
Part Marking Code	>PA66-GB30<		ISO 11469
Continuous Service Temperature	194	°F	IEC 60216-1

Rheological properties

	dry/cond.		
Viscosity number	4010 / *	in³/lb	ISO 307, 1628
Molding shrinkage range, parallel	1 - 1.4	%	ISO 294-4, 2577
Molding shrinkage range, normal	1 - 1.4	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	595000 / -	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	11600 / -	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	5 / -	%	ISO 527-1/-2
Charpy impact strength, 23°C	10.5 / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	1.05 / -	ftlb/in²	ISO 179/1eA
Ball indentation hardness, H 961/30	27600 / -	psi	ISO 2039-1

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	500 / *	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	194 / *	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	428 / *	°F	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB / *	class	IEC 60695-11-10

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.5 / *	%	Sim. to ISO 62
Water absorption, 2mm	7 / *	%	Sim. to ISO 62
Density	0.0487 / -	lb/in³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	176	°F
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.15	%
Melt Temperature Optimum	563	°F
Min. melt temperature	545	°F
Max. melt temperature	581	°F
Max. screw tangential speed	≤0.2	m/s
Mold Temperature Optimum	212	°F
Min. mold temperature	158	°F
Max. mold temperature	248	°F

Revised: 2026-01-07 Source: Celanese Materials Database

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Characteristics

Processing	Injection Molding
Special characteristics	High Flow, Low Warpage

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