CELANYL® A3 H GF30 NC 1102/2

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Designed for technical application requiring medium term heat resistance, good surface quality and mechanical performances.

Product information

Resin Identification	PA66-GF30	ISO 1043
Part Marking Code	>PA66-GF30<	ISO 11469

Rheological properties

Molding shrinkage range, parallel	0.3 - 0.6	%	ISO 294-4, 2577
Molding shrinkage range, normal	0.6 - 0.9	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	1.38E6 / -	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	27600 / -	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.5 / -	%	ISO 527-1/-2
Flexural modulus	1.28E6 / -	psi	ISO 178
Charpy impact strength, 23°C	40.4 / -	ftlb/in²	ISO 179/1eU
Izod notched impact strength, 23°C	5.71 / -	ftlb/in²	ISO 180/1A

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	509 / *	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	482 / *	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	500 / *	°F	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.0315 / *	in	IEC 60695-11-10

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.7 / *	%	Sim. to ISO 62
Water absorption, 2mm	5.9 / *	%	Sim. to ISO 62
Density	0.0491 / -	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: 2024-08-16 Source: Celanese Materials Database

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Characteristics

Processing	Injection Molding
Special characteristics	Heat stabilized or stable to heat

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