CELANYL® B2 HH J7 GF30 NC 1102/3

CELANYL®

Designed for technical applications that require high mechanical performances, improved toughness and heat ageing resistance.

Product information

Resin Identification	PA6-I-GF30		ISO 1043
Part Marking Code	>PA6-I-GF30<		ISO 11469
Continuous Service Temperature	248	°F	IEC 60216-1

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	1.23E6 / -	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	20300 / -	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	4.5 / -	%	ISO 527-1/-2
Flexural modulus	1.02E6 / -	psi	ISO 178
Flexural strength	43500 / -	psi	ISO 178
Charpy impact strength, 23°C	47.6 / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	10.5 / -	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23°C	11.4 / -	ftlb/in²	ISO 180/1A

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	437 / *	°F	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	1.7 / *	%	Sim. to ISO 62
Water absorption, 2mm	5.9 / *	%	Sim. to ISO 62
Density	0.0473 / -	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	500	°F
Min. melt temperature	464	°F
Max. melt temperature	554	°F
Max. screw tangential speed	≤0.2	m/s
Mold Temperature Optimum	176	°F
Min. mold temperature	122	°F
Max. mold temperature	248	°F

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

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Characteristics

Processing	Injection Molding
Special characteristics	High impact or impact modified, Heat stabilized or stable to heat

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