CELANYL® A3 GF30 BK 9005/TE

CELANYL®

PA66, 30% glass fibre reinforced
Car industry, Household appliances, Electrical devices.

Product information

Resin Identification	PA66-GF30		ISO 1043
Part Marking Code	>PA66-GF30<		ISO 11469
Continuous Service Temperature	230	°F	IEC 60216-1

Rheological properties

Molding shrinkage range, parallel	0.4 - 0.6	%	ISO 294-4, 2577
Molding shrinkage range, normal	0.7 - 0.9	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	1.42E6 / -	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	26100 / -	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.8 / -	%	ISO 527-1/-2
Charpy impact strength, 23 °C	26.2 / -	ftlb/in²	ISO 179/1eU
Izod notched impact strength, 23 °C	4.52 / -	ftlb/in²	ISO 180/1A

Thermal properties

	dry/cond.		
Temperature of deflection under load, 1.8 MPa	473 / *	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	491 / *	°F	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.0630 / *	in	IEC 60695-11-10
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.0315 / *	in	IEC 60695-11-10
UL recognition	yes / *		UL 94

Electrical properties

	dry/cond.		
Volume resistivity	1E13 / -	Ohm.m	IEC 62631-3-1

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.5 / *	%	Sim. to ISO 62
Water absorption, 2mm	5.5 / *	%	Sim. to ISO 62
Density	0.0495 / -	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

Revised: 2025-02-14 Source: Celanese Materials Database

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Max. screw tangential speed	≤0.2	m/s
Mold Temperature Optimum	212	°F
Min. mold temperature	158	°F
Max. mold temperature	248	°F

Characteristics

Processing	Injection Molding
Special characteristics	Specialty appearance, High Flow

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