CELANYL® A3 GF60 NC 1102/Z

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Car industry, Household appliances, Electrical devices.

Product information

Resin Identification	PA66-GF60		ISO 1043
Part Marking Code	>PA66-GF60<		ISO 11469

Rheological properties

	dry/cond.		
Melt volume-flow rate	10 / *	cm^3/10min	ISO 1133
Temperature	518 / *	°F	
Load	11 / *	lb	
Molding shrinkage, parallel	0.2 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	0.3 / -	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	2.9E6 / -	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	35000 / -	psi	ISO 527-1/-2
Tensile strain at break, 50mm/min	1.9 / -	%	ISO 527-1/-2
Charpy impact strength, 23°C	38.1 / -	ftlb/in^2	ISO 179/1eU
Charpy notched impact strength, 23°C	6.18 / -	ftlb/in^2	ISO 179/1eA
Izod notched impact strength, 23°C	6.66 / -	ftlb/in^2	ISO 180/1A
Izod impact strength, 23°C	32.8 / -	ftlb/in^2	ISO 180/1U

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	504 / *	°F	ISO 11357-1/-3
Temperature of deflection under load, 0.45 MPa	500 / *	°F	ISO 75-1/-2

Electrical properties

	dry/cond.		
Comparative tracking index	500 / -		IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	0.8 / *	%	Sim. to ISO 62
Water absorption, 2mm	3.2 / *	%	Sim. to ISO 62
Density	0.061 / -	lb/in^3	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, High Flow

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