CELANYL® A3 GF35 NC 1102

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General purpose grade with improved flowability.

Product information

Resin Identification	(PA66+PA6)-GF35	ISO 1043
Part Marking Code	>(PA66+PA6)-GF35<	ISO 11469
Continuous Service Temperature	203 °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	1.54E6 / -	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	30500 / -	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.7 / -	%	ISO 527-1/-2
Charpy impact strength, 23 °C	33.3 / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23 °C	6.66 / -	ftlb/in²	ISO 179/1eA
Charpy notched impact strength, -30 °C	5.23 / -	ftlb/in²	ISO 179/1eA
Ball indentation hardness, H 961/30	29000 / -	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	464 / *	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	482 / *	°F	ISO 75-1/-2

Flammability

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

Electrical properties

	dry/cond.		
Volume resistivity	1E13 / -	Ohm.m	IEC 62631-3-1
Comparative tracking index	550 / -		IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.6 / *	%	Sim. to ISO 62
Water absorption, 2mm	5.6 / *	%	Sim. to ISO 62
Density	0.0509 / -	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

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

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Mold Temperature Optimum	212	°F
Min. mold temperature	158	°F
Max. mold temperature	248	°F

Characteristics

Processing	Injection Molding
Special characteristics	High Flow

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