CELANYL® A3 GB05 NC 1102/EB

CELANYL®

Injection molding grade, easy flowing, suitable for any technical application.

Product information

Resin Identification	PA66-GB08	ISO 1043
Part Marking Code	>PA66-GB08<	ISO 11469

Rheological properties

Molding shrinkage range, parallel	1.4 - 1.8	%	ISO 294-4, 2577
Molding shrinkage range, normal	1.4 - 1.8	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	508000 / -	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	11000 / -	psi	ISO 527-1/-2
Tensile strain at break, 50mm/min	4 / -	%	ISO 527-1/-2
Charpy impact strength, 23°C	9.51 / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	0.951 / -	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23°C	1.05 / -	ftlb/in²	ISO 180/1A
Izod impact strength, 23°C	7.14 / -	ftlb/in²	ISO 180/1U

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	509 / *	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	176 / *	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	410 / *	°F	ISO 75-1/-2

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.1 / *	%	Sim. to ISO 62
Water absorption, 2mm	7.4 / *	%	Sim. to ISO 62
Density	0.0422 / -	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

Characteristics

Processing	Injection Molding
Special characteristics	High Flow

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

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