CELANYL® A3 GB20 BK 9005/U

CELANYL®

General purpose grade, high flowability, easy processing, low warpage.

Product information

Resin Identification	PA66-GB20		ISO 1043
Part Marking Code	>PA66-GB20<		ISO 11469
Continuous Service Temperature	230	°F	IEC 60216-1

Rheological properties

Molding shrinkage range, parallel	0.9 - 1.4	%	ISO 294-4, 2577
Molding shrinkage range, normal	0.9 - 1.4	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	537000 / -	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	10900 / -	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	5 / -	%	ISO 527-1/-2
Charpy impact strength, 23 °C	11.9 / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23 °C	1.43 / -	ftlb/in²	ISO 179/1eA

Thermal properties

	dry/cond.		
Melting temperature, 10 °C/min	500 / *	°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	1.9 / *	%	Sim. to ISO 62
Water absorption, 2mm	6.6 / *	%	Sim. to ISO 62
Density	0.0458 / -	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, Low Warpage

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

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