CELANYL® A3 J20 NC 1102/E

CELANYL®

Car industry, Household appliances, Electrical devices.

Product information

Resin Identification	PA66-I		ISO 1043
Part Marking Code	>PA66-I<		ISO 11469
Continuous Service Temperature	185	°F	IEC 60216-1

Rheological properties

Molding shrinkage range, parallel	1.2 - 1.6	%	ISO 294-4, 2577
Molding shrinkage range, normal	1.2 - 1.6	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	261000 / -	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	7100 / -	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	10 / -	%	ISO 527-1/-2
Flexural modulus	247000 / -	psi	ISO 178
Flexural strength	9430 / -	psi	ISO 178
Charpy impact strength, 23°C	N / -	ftlb/in²	ISO 179/1eU
Izod notched impact strength, 23°C	35.7 / -	ftlb/in²	ISO 180/1A
Izod notched impact strength, -30°C	9.51 / -	ftlb/in²	ISO 180/1A

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	500 / *	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	140 / *	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	320 / *	°F	ISO 75-1/-2

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.7 / *	%	Sim. to ISO 62
Water absorption, 2mm	6.8 / *	%	Sim. to ISO 62
Density	0.0383 / -	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	554	°F
Min. melt temperature	536	°F
Max. melt temperature	572	°F
Max. screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	176	°F
Min. mold temperature	122	°F
Max. mold temperature	212	°F

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

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Characteristics

Processing	Injection Molding
Special characteristics	High impact or impact modified

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