CELANYL® A3 H J13 NC 1102/TT/01

CELANYL®

Toughened grade for medium impact resistance over a wide temperature range.

Product information

Resin Identification	PA66-I		ISO 1043
Part Marking Code	>PA66-I<		ISO 11469
Continuous Service Temperature	248	°F	IEC 60216-1

Rheological properties

	dry/cond.		
Viscosity number	3880 / *	in³/lb	ISO 307, 1628
Molding shrinkage range, parallel	1.6 - 2	%	ISO 294-4, 2577
Molding shrinkage range, normal	1.6 - 2	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	312000 / -	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	8000 / -	psi	ISO 527-1/-2
Tensile strain at break, 50mm/min	60 / -	%	ISO 527-1/-2
Charpy impact strength, 23°C	N / -	ftlb/in²	ISO 179/1eU
Charpy impact strength, -30°C	N / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	N / -	ftlb/in²	ISO 179/1eA
Charpy notched impact strength, -30°C	7.61 / -	ftlb/in²	ISO 179/1eA
Ball indentation hardness, H 961/30	16700 / -	psi	ISO 2039-1

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	509 / *	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	185 / *	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	356 / *	°F	ISO 75-1/-2

Flammability

FMVSS Class	B		ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	1.3	in/min	ISO 3795 (FMVSS 302)

Electrical properties

	dry/cond.		
Volume resistivity	1E13 / -	Ohm.m	IEC 62631-3-1
Comparative tracking index	600 / -		IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2 / *	%	Sim. to ISO 62
Water absorption, 2mm	7.2 / *	%	Sim. to ISO 62
Density	0.039 / -	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

Revised: 2026-08-12 Source: Celanese Materials Database

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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

Characteristics

Processing	Injection Molding
Special characteristics	High impact or impact modified, Heat stabilized or stable to heat

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