

## CELANYL<sup>®</sup> A3 J10 NC 1102/E

CELANYL®

Medium toughened grade, good surface appearance and good processability. Suitable for many technical applications.

Product information				
Resin Identification	PA66-I		ISO 1043	
Part Marking Code Continuous Service Temperature	>PA66-I	l< 85  °C	ISO 11469 IEC 60216-1	
Continuous Service remperature	C C	5 0		
Rheological properties				
Moulding shrinkage range, parallel	1.2 - 1.		ISO 294-4, 2577	
Moulding shrinkage range, normal	1.2 - 1.	.6 %	ISO 294-4, 2577	
Typical mechanical properties	dry/cond.			
Tensile modulus	2500/-	MPa	ISO 527-1/-2	
Tensile stress at yield, 50mm/min	65/-	MPa	ISO 527-1/-2	
Tensile strain at yield, 50mm/min	5/-	%	ISO 527-1/-2	
Tensile strain at break, 50mm/min Flexural modulus	20/- 1900/-	% MPa	ISO 527-1/-2 ISO 178	
Flexural modulus	-/1900- 80/-	MPa MPa	ISO 178 ISO 178	
Charpy impact strength, 23°C	N/-	kJ/m <sup>2</sup>	ISO 178 ISO 179/1eU	
Charpy notched impact strength, 23°C	18/-	kJ/m <sup>2</sup>	ISO 179/1eO	
Izod notched impact strength, 23°C	16/-	kJ/m <sup>2</sup>	ISO 180/1A	
Izod notched impact strength, -30°C	10.0/-	kJ/m²	ISO 180/1A	
Poisson's ratio	0.38/- <sup>[C]</sup>			
[C]: Calculated				
Thermal properties	dry/cond.			
Melting temperature, 10°C/min	265/*	°C	ISO 11357-1/-3	
Temperature of deflection under load, 1.8 MPa	65/*	°C	ISO 75-1/-2	
Temperature of deflection under load, 0.45 MPa	200/*	°C	ISO 75-1/-2	
Flammability	dry/cond.			
Burning Behav. at 1.5mm nom. thickn.	HB/*	class	IEC 60695-11-10	
Physical/Other properties	dry/cond.			
Humidity absorption, 2mm	2.1/*	%	Sim. to ISO 62	
Water absorption, 2mm	7.6/*	%	Sim. to ISO 62	
Density	1090/-	kg/m³	ISO 1183	
Injection				
Drying Recommended	ye	yes		
Drying Temperature	80 °C			
Drying Time, Dehumidified Dryer	2-4 h			
Processing Moisture Content	≤0.15 %			
Melt Temperature Optimum	290 °C 280 °C			
Min. melt temperature Max. melt temperature	300 °C			
Max. mon temperature	50			

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Screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	80	°C
Min. mould temperature	50	°C
Max. mould temperature	100	°C

## **Characteristics**

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	High impact or impact modified

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

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