



CELANYL® A3 D10 NC 1102/R

CELANYL®

General purpose grade, good flowability, improved flexibility.

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Resin Identification Part Marking Code Continuous Service Temperature	PA66-I >PA66-I< 115		ISO 1043 ISO 11469 IEC 60216-1
Rheological properties	dry/cond.		
Viscosity number	140/*	cm ³ /g	ISO 307, 1628
Moulding shrinkage range, parallel	1.4 - 1.8	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1.4 - 1.8	%	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 break, 50mm/min	20/-	%	ISO 527-1/-2
Charpy impact strength, 23°C	N/-	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	8.5/-	kJ/m²	ISO 179/1eA
Poisson's ratio	0.444/- ^[DS]		
[DS]: Derived from similar grade			
Thermal properties	dry/cond.		
Melting temperature, 10°C/min	260/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	85/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	185/*	°C	ISO 75-1/-2
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	2.1/*	%	Sim. to ISO 62
Water absorption, 2mm	7.5/*	%	Sim. to ISO 62
Density	1100/-	kg/m³	ISO 1183
Injection			
Drying Recommended	yes	3	
Drying Temperature) °C	
Drying Time, Dehumidified Dryer	2 - 4		
Processing Moisture Content	≤0.15		
Melt Temperature Optimum) °C	
Min. melt temperature	280	°C	

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300 °C

≤0.3 m/s 80 °C

50 °C

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

Max. melt temperature

Screw tangential speed

Min. mould temperature

Mold Temperature Optimum





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Max. mould temperature 100 °C

Characteristics

Processing Injection Moulding

Delivery form Granules
Additives Nucleated

Special characteristics High impact or impact modified, Heat stabilised or stable to heat, High Flow

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

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any e

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