



ISO 1043

CELANYL® A3 H BK 9005/U

CELANYL®

Suitable for any field of application, this grade offers good mechanical performance, high productivity, easy processability for an aesthetically brilliant result.

PA66

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Resin Identification

Resin Identification Part Marking Code Continuous Service Temperature	>PA66 >PA66< 120		ISO 1043 ISO 11469 IEC 60216-1
Rheological properties	dry/cond.		
Viscosity number	140/*	cm ³ /g	ISO 307, 1628
Moulding shrinkage range, parallel	1.5 - 1.9	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1.5 - 1.9	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	3250/-	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	85/-	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	5/-	%	ISO 527-1/-2
Flexural modulus	3300/1200	MPa	ISO 178
Flexural stress at 3.5%	105/-	MPa	ISO 178
Charpy impact strength, 23°C	40/-	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	3/-	kJ/m²	ISO 179/1eA
Hardness, Rockwell, M-scale	89/- 0.37/- ^[C]		ISO 2039-2
Poisson's ratio	0.37/-101		
[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	85/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	200/*	°C	ISO 75-1/-2
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	2.4/*	%	Sim. to ISO 62
Water absorption, 2mm	8.5/*	%	Sim. to ISO 62
Density	1130/-	kg/m³	ISO 1183
Injection			
Drying Recommended	yes		
Drying Temperature		°C	
Drying Time, Dehumidified Dryer	2 - 4	h	
Processing Moisture Content	≤0.15	%	
Melt Temperature Optimum	290		
Min. melt temperature	280		
Max. melt temperature	300		

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≤0.4 m/s

70 °C 50 °C

90 °C

Revised: 2025-04-02 Source: Celanese Materials Database

Screw tangential speed

Min. mould temperature Max. mould temperature

Mold Temperature Optimum

(+) 18816996168 Ponciplastics.com



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Characteristics

Processing Injection Moulding

Delivery form Granules

Special characteristics Heat stabilised or stable to heat

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