

## CELANYL<sup>®</sup> A3 H GF30 BK 9005/R CELANYL®

General purpose grade, suitable for any technical and aesthetical use. Heat ageing resistant.

Product information Resin Identification Part Marking Code	PA66-GF30 >PA66-GF30<		ISO 1043 ISO 11469
Rheological properties	dry/cond.		
Viscosity number	140/*	cm <sup>3</sup> /g	ISO 307, 1628
Moulding shrinkage range, parallel	0.3 - 0.6	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.6 - 0.9	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	10000/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	170/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.8/-	%	ISO 527-1/-2
Flexural strength	260/-	MPa	ISO 178
Charpy impact strength, 23°C	>50/-	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	7/-	kJ/m²	ISO 179/1eA
Poisson's ratio	0.34/- <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	240/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	250/*	°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	1.7/*	%	Sim. to ISO 62
Water absorption, 2mm	5.9/*	%	Sim. to ISO 62
Density	1360/-	kg/m³	ISO 1183
Injection			
Drying Recommended	ye	S	
Drying Temperature	08°C		
Drying Time, Dehumidified Dryer		4 h	
Processing Moisture Content	≤0.15 %		
Melt Temperature Optimum	295 °C		
Min. melt temperature Max. melt temperature	285 °C 305 °C		
Screw tangential speed	≤0.2 m/s		
Mold Temperature Optimum		2 m/s 0 °C	
Min. mould temperature		0°C	
Max. mould temperature	12	0 °C	

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## **Characteristics**

Processing Delivery form Special characteristics Injection Moulding Granules Heat stabilised or stable to heat, High Flow

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

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