



CELANYL® A3 H GFB0822 BK 9005/U CELANYL®

Technical grade with good flowability and low warpage. Long term heat ageing resistance, good surface quality.

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Resin Identification	PA66-(GB+GF)3		ISO 1043
Part Marking Code Continuous Service Temperature	0 >PA66-(GB+GF)30< 130 °C		ISO 11469 IEC 60216-1
Rheological properties	dry/cond.		
Viscosity number	145/*	cm ³ /g	ISO 307, 1628
Moulding shrinkage range, parallel	0.7 - 1.1	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1.1 - 1.5	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	5700/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	95/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.7/-	%	ISO 527-1/-2
Charpy impact strength, 23°C	30/-	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	3/-	kJ/m²	ISO 179/1eA
Ball indentation hardness, H 961/30	180/-	MPa	ISO 2039-1
Poisson's ratio	0.35/- ^[C]		
[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	230/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	245/*	°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	1.6/*	%	Sim. to ISO 62
Water absorption, 2mm	5.7/*	%	Sim. to ISO 62
Density	1350/-	kg/m³	ISO 1183
Injection			
Drying Recommended	ye		
Drying Temperature Drying Time, Dehumidified Dryer	80 °C 2-4 h		
Processing Moisture Content	≤0.1.		
Melt Temperature Optimum		5 °C	
Min. melt temperature		5 °C	
Max. melt temperature		5 °C	
Screw tangential speed		2 m/s	
Mold Temperature Optimum		0 °C	
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Revised: 2024-08-16 Source: Celanese Materials Database





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Min. mould temperature70 °CMax. mould temperature120 °CEjection temperature225 °C

Characteristics

Processing Injection Moulding

Delivery form Granules

Special characteristics Heat stabilised or stable to heat, High Flow, Low Warpage

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