

CELANYL[®] A3 H GFB0535 BK 9005/U CELANYL®

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

Product information

Resin Identification	PA66-(GB+GF)4		ISO 1043
Part Marking Code Continuous Service Temperature	0 >PA66-(GB+GF)40< 130 °C		ISO 11469 IEC 60216-1
Rheological properties	dry/cond.		
Viscosity number	145/*	cm³/g	ISO 307, 1628
Moulding shrinkage range, parallel	0.6 - 1	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.9 - 1.3	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	5800/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	95/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.7/-	%	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	185/-	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	225/*	°Č	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	1.4/*	%	Sim. to ISO 62
Water absorption, 2mm	5/*	%	Sim. to ISO 62
Density	1430/-	kg/m ³	ISO 1183
Density	14007	Kg/III	
Injection			
Drying Recommended	ye		
Drying Temperature		O°C	
Drying Time, Dehumidified Dryer		4 h	
Processing Moisture Content	≤0.15 %		
Melt Temperature Optimum		5 °C	
Min. melt temperature		5 °C	
Max. melt temperature		5 °C	
Screw tangential speed	≤0.:	2 m/s	

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Mold Temperature Optimum	100 °C
Min. mould temperature	70 °C
Max. mould temperature	120 °C

Characteristics

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

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

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