

CELANYL® A3 GB20 BK 9005/U CELANYL®

General purpose grade, high flowability, easy processing, low warpage.

Product information			
Resin Identification	PA66-GB20		ISO 1043
Part Marking Code	>PA66-GB20<		ISO 11469
Continuous Service Temperature	110	°C	IEC 60216-1
Rheological properties			
Moulding shrinkage range, parallel	0.9 - 1.4	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.9 - 1.4	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	3700/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	75/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	5/-	%	ISO 527-1/-2
Charpy impact strength, 23°C Charpy notched impact strength, 23°C	25/- 3/-	kJ/m² kJ/m²	ISO 179/1eU ISO 179/1eA
Poisson's ratio	0.36/- ^[C]	KJ/III	130 179/18A
[C]: Calculated			
Thermal properties	dry/cond.		
Melting temperature, 10°C/min	260/*	°C	ISO 11357-1/-3
	2007	0	100 1100/-1/-0
Flammability	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB/*	class	IEC 60695-11-10
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	1.9/*	%	Sim. to ISO 62
Water absorption, 2mm	6.6/*	%	Sim. to ISO 62
Density	1270/-	kg/m³	ISO 1183
Injection			
Drying Recommended	yes		
Drying Temperature	80 °C		
Drying Time, Dehumidified Dryer	2-4 h		
Processing Moisture Content Melt Temperature Optimum	≤0.15 % 295 °C		
Min. melt temperature	295 °C		
Max. melt temperature	305 °C		
Screw tangential speed	≤0.2 m/s		
Mold Temperature Optimum	100 °C		
Min. mould temperature		°C	
Max. mould temperature	120	υC	

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Characteristics

Processing Delivery form Special characteristics Injection Moulding Granules High Flow, Low Warpage

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