

# 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	25 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	3 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.36 / - <sup>[C]</sup>		
[C]: Calculated			

### Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3

### 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/m <sup>3</sup>	ISO 1183

### Injection

Drying Recommended	yes
Drying Temperature	80 °C
Drying Time, Dehumidified Dryer	2 - 4 h
Processing Moisture Content	≤0.15 %
Melt Temperature Optimum	295 °C
Min. melt temperature	285 °C
Max. melt temperature	305 °C
Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	100 °C
Min. mould temperature	70 °C
Max. mould temperature	120 °C

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### Characteristics

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