

# CELANYL® A3 GB50 BK 9005/A

## CELANYL®

*Designed for any technical application requiring high dimensional stability, low warpage, and good surface quality.  
Improved processability.*

### Product information

Resin Identification	(PA66+PA6)-GB50	ISO 1043
Part Marking Code	>(PA66+PA6)-GB50<	ISO 11469
Continuous Service Temperature	90 °C	IEC 60216-1

### Rheological properties

Moulding shrinkage range, parallel	0.7 - 1.1 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.7 - 1.1 %	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	5900 / -	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	65 / -	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5 / -	%	ISO 527-1/-2
Charpy impact strength, 23 °C	30 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23 °C	3 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Ball indentation hardness, H 961/30	220 / -	MPa	ISO 2039-1
Poisson's ratio	0.35 / - <sup>[C]</sup>		
[C]: Calculated			

### Thermal properties

	dry/cond.		
Melting temperature, 10 °C/min	260 / *	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	200 / *	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	220 / *	°C	ISO 75-1/-2

### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.3 / *	%	Sim. to ISO 62
Water absorption, 2mm	4.2 / *	%	Sim. to ISO 62
Density	1550 / -	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

# CELANYL® A3 GB50 BK 9005/A

## CELANYL®

### Characteristics

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