

# CELANYL® A3 H GF30 TM1 BK 9005/K

## CELANYL®

Car industry, Household appliances, Electrical devices.

PA66 for injection moulding, 30% glass fibre reinforced, heat stabilised and molybdenum disulfide lubricated.

### Product information

Resin Identification	PA66-GF30	ISO 1043
Part Marking Code	>PA66-GF30<	ISO 11469
Continuous Service Temperature	125 °C	IEC 60216-1

### Rheological properties

	dry/cond.		
Viscosity number	140 / *	cm <sup>3</sup> /g	ISO 307, 1628
Moulding shrinkage range, parallel	0.3 - 0.5	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.8 - 1.1	%	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	9700 / -	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	170 / -	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.7 / -	%	ISO 527-1/-2
Charpy impact strength, 23 °C	50 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23 °C	7.5 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Ball indentation hardness, H 961/30	200 / -	MPa	ISO 2039-1
Poisson's ratio	0.34 / - <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	245 / *	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	250 / *	°C	ISO 75-1/-2

### Electrical properties

	dry/cond.		
Volume resistivity	1E13 / -	Ohm.m	IEC 62631-3-1
Comparative tracking index	450 / -		IEC 60112

### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.6 / *	%	Sim. to ISO 62
Water absorption, 2mm	6 / *	%	Sim. to ISO 62
Density	1360 / -	kg/m <sup>3</sup>	ISO 1183

### Characteristics

Processing	Injection Moulding
Additives	Contains Molybdenum Disulfide
Special characteristics	Low wear / Low friction, High Flow

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