

# CELANYL® A3 H GF30 BK 9005/J

## CELANYL®

Special grade, suitable for applications that require low surface resistivity.

### Product information

Resin Identification	PA66-(GF+CF)2 8	ISO 1043
Part Marking Code	>PA66-(GF+CF)28<	ISO 11469

### Rheological properties

Moulding shrinkage range, parallel	0.1 - 0.4 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.6 - 0.9 %	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	11500/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	155/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5/-	%	ISO 527-1/-2
Flexural strength	260/-	MPa	ISO 178
Charpy impact strength, 23°C	50/-	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	7.8/-	kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.33/- <sup>[C]</sup>		

[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	250/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	260/*	°C	ISO 75-1/-2

### Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB/*	class	IEC 60695-11-10
Thickness tested	1.6/*	mm	IEC 60695-11-10

### Electrical properties

	dry/cond.		
Surface resistivity	*/30000	Ohm	IEC 62631-3-2

### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.3/*	%	Sim. to ISO 62
Water absorption, 2mm	4.6/*	%	Sim. to ISO 62
Density	1280/-	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

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Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	100 °C
Min. mould temperature	70 °C
Max. mould temperature	120 °C

### Characteristics

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