



## CELANYL® A3 J GF15 BK 9005/U

**CELANYL®** 

Injection molding grade designed for Automotive parts, good impact resistance even at low temperature and good surface quality.

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Resin Identification	PA66-I-GF15	ISO 1043
Part Marking Code	>PA66-I-GF15<	ISO 11469

#### Rheological properties

Moulding shrinkage range, parallel	0.5 - 0.9 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.9 - 1.3 %	ISO 294-4, 2577

#### Typical mechanical properties dry/cond.

Tensile modulus	4700/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	95/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	4.8/-	%	ISO 527-1/-2
Flexural modulus	4200/-	MPa	ISO 178
Flexural strength	130/-	MPa	ISO 178
Charpy impact strength, 23°C	N/-	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	45/-	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	10.5/-	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	4.8/-	kJ/m²	ISO 179/1eA
Poisson's ratio	0.36/- <sup>[C]</sup>		

[C]: Calculated

### Thermal properties

Melting temperature, 10°C/min	265/* °C	ISO 11357-1/-3
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dry/cond.

dry/cond.

dry/cond.

#### Flammability

Burning Behav. at 1.5mm nom. thickn.	HB/* class	IEC 60695-11-10
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#### Physical/Other properties

Humidity absorption, 2mm	1.7/*	%	Sim. to ISO 62
Water absorption, 2mm	6.1/*	%	Sim. to ISO 62
Density	1180/-	kg/m³	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	80 °C
Min. mould temperature	50 °C

Printed: 2025-05-29 Page: 1 of 2

Revised: 2024-08-16 Source: Celanese Materials Database





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Max. mould temperature 100 °C

Characteristics

Processing Injection Moulding

Delivery form Granules

Special characteristics High impact or impact modified, U.V. stabilised or stable to weather, Heat stabilised

or stable to heat, High Flow

**Automotive** 

OEM STANDARD ADDITIONAL INFORMATION

Mercedes-Benz DBL5410 DAIMLER - ELFO AG - Short Circuit Isolation -

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Printed: 2025-05-29 Page: 2 of 2

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