

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.

Product information

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/m ²	ISO 179/1eU
Charpy impact strength, -30°C	45 /-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	10.5 /-	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	4.8 /-	kJ/m ²	ISO 179/1eA
Poisson's ratio	0.36 / - ^[C]		

[C]: Calculated

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	265 / *	°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	1.7 / *	%	Sim. to ISO 62
Water absorption, 2mm	6.1 / *	%	Sim. to ISO 62
Density	1180 / -	kg/m ³	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

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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 - CNL A3 J GF15 BK9005/U