Celanese
The chemistry inside innovation™

CELANYL® A3 H J6 GF12 BK 9005/2

CELANYL®

Injection molding grade, easy flowing, suitable for application requiring good flexibility directly after molding, long term temperature resistance.

Product information

Resin Identification	PA66-I-GF12	ISO 1043
Part Marking Code	>PA66-I-GF12<	ISO 11469

Rheological properties

Moulding shrinkage range, parallel	0.5 - 0.8	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.8 - 1.1	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	4800 / -	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	110 / -	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.8 / -	%	ISO 527-1/-2
Charpy impact strength, 23 °C	50 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23 °C	11 / -	kJ/m²	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	2 / *	%	Sim. to ISO 62
Water absorption, 2mm	6.9 / *	%	Sim. to ISO 62
Density	1190 / -	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
Max. mould temperature	100	°C

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Characteristics

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

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Stellantis	B62 0300 / 61/U4/AD1/W1/223E/13/C1	01378_15_01906

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