

CELANYL® B2 HH GF15 BK 9005/3A

CELANYL®

Designed for Automotive industry but suitable for any other application requiring long term heat ageing resistance.

Product information

Resin Identification	PA6-GF15	ISO 1043
Part Marking Code	>PA6-GF15<	ISO 11469
Continuous Service Temperature	120 °C	IEC 60216-1

Rheological properties

Moulding shrinkage range, parallel	0.4 - 0.6 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.6 - 1 %	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	5700 / 2900	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	120 / 80	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.5 / 8	%	ISO 527-1/-2
Flexural modulus	4550 / -	MPa	ISO 178
Charpy impact strength, 23°C	58 / >60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	5.7 / 12	kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	6 / -	kJ/m ²	ISO 180/1A
Poisson's ratio	0.35 / 0.37 ^[C]		
[C]: Calculated			

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	225 / *	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	200 / *	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	215 / *	°C	ISO 75-1/-2

Flammability

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

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.2 / *	%	Sim. to ISO 62
Water absorption, 2mm	7.6 / *	%	Sim. to ISO 62
Density	1220 / -	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	260 °C
Min. melt temperature	240 °C
Max. melt temperature	290 °C
Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	80 °C
Min. mould temperature	60 °C

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Max. mould temperature 120 °C

Characteristics

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

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
VW Group	VW 50125	*Best Fitting Grade To PA6-4, Not Officially Approved
VW Group	VW 50134	*Best Fitting Grade To PA6-3-A, Not Officially Approved