

# CELANYL® B3 HH SGF2515 BK 9005/E

## CELANYL®

General purpose grade suitable for any technical application, long term heat ageing resistance, high rigidity and low warpage.

### Product information

Resin Identification	PA6-(MD+GF)4 5	ISO 1043
Part Marking Code	>PA6-(MD+GF)45<	ISO 11469
Continuous Service Temperature	130 °C	IEC 60216-1

### Rheological properties

Moulding shrinkage range, parallel	0.4 - 0.6 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.5 - 0.8 %	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	8000/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	115/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2/-	%	ISO 527-1/-2
Flexural strength	260/-	MPa	ISO 178
Charpy impact strength, 23°C	30/-	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	3.5/-	kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.34/- <sup>[C]</sup>		
[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	210/*	°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	1.4/*	%	Sim. to ISO 62
Water absorption, 2mm	4.8/*	%	Sim. to ISO 62
Density	1490/-	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	260 °C
Min. melt temperature	240 °C
Max. melt temperature	290 °C
Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	80 °C

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Min. mould temperature 60 °C  
Max. mould temperature 120 °C

### Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	Heat stabilised or stable to heat, Low Warpage

### Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
VW Group	VW 50125	*Best Fitting Grade To PA6-13, Not Officially Approved
VW Group	VW 50134	*Best Fitting Grade To PA6-5-A, Not Officially Approved