

# CELANYL® B3 HH SGF1809 BK 9005/2

## CELANYL®

Designed for Automotive industry, suitable for other technical applications that require high stiffness and low warpage.  
 Long term heat ageing resistance, good surface quality.

### Product information

Resin Identification	PA6-(GF+MD)3 0	ISO 1043
Part Marking Code	>PA6-(GF+MD)30<	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 - 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	105/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.8/-	%	ISO 527-1/-2
Flexural modulus	7700/-	MPa	ISO 178
Charpy impact strength, 23°C	50/-	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	5/-	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, 23°C	5/-	kJ/m <sup>2</sup>	ISO 180/1A
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

### Flammability

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

### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.8/*	%	Sim. to ISO 62
Water absorption, 2mm	6.3/*	%	Sim. to ISO 62
Density	1370/-	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
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, Low Warpage