

# CELANYL® B3 HH GF35 BK 9005/E

## CELANYL®

Car industry, Household appliances, Electrical devices.

### Product information

Resin Identification	PA6-GF35	ISO 1043
Part Marking Code	>PA6-GF35<	ISO 11469
Continuous Service Temperature	130 °C	IEC 60216-1

### Rheological properties

	dry/cond.	
Melt volume-flow rate	24/*	cm³/10min
Temperature	270/*	°C
Load	5/*	kg
Viscosity number	140/*	cm³/g
Moulding shrinkage range, parallel	0.2 - 0.5	%
Moulding shrinkage range, normal	0.6 - 0.9	%

### Typical mechanical properties

	dry/cond.	
Tensile modulus	10800/-	MPa
Tensile stress at break, 5mm/min	175/-	MPa
Tensile strain at break, 5mm/min	3/-	%
Flexural modulus	9000/-	MPa
Flexural strength	230/-	MPa
Charpy impact strength, 23°C	90/-	kJ/m²
Charpy notched impact strength, 23°C	13.5/-	kJ/m²
Izod notched impact strength, 23°C	12/-	kJ/m²
Izod impact strength, 23°C	75/-	kJ/m²
Ball indentation hardness, H 961/30	215/-	MPa
Poisson's ratio	0.34/- <sup>[C]</sup>	

[C]: Calculated

### Thermal properties

	dry/cond.	
Melting temperature, 10°C/min	225/*	°C
Temperature of deflection under load, 1.8 MPa	210/*	°C
Temperature of deflection under load, 0.45 MPa	220/*	°C

### Flammability

	dry/cond.	
Burning Behav. at 1.5mm nom. thickn.	HB/*	class
Thickness tested	1.6/*	mm
Burning Behav. at thickness h	HB/*	class
Thickness tested	0.4/*	mm
Glow Wire Flammability Index, 0.75mm	650/-	°C
Glow Wire Flammability Index, 3.0mm	650/-	°C

# CELANYL® B3 HH GF35 BK 9005/E

## CELANYL®

### Electrical properties

	dry/cond.		
Volume resistivity	1E15 / -	Ohm.m	IEC 62631-3-1
Surface resistivity	* / 1E14	Ohm	IEC 62631-3-2
Electric strength	21 / -	kV/mm	IEC 60243-1
Comparative tracking index	500 / -		IEC 60112

### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1 / *	%	Sim. to ISO 62
Water absorption, 2mm	6 / *	%	Sim. to ISO 62
Density	1410 / -	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	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
Max. mould temperature	120 °C

### Characteristics

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