

# CELANYL® B2 H GF55 BK 2000/UV/N/1

## CELANYL®

### Product information

Resin Identification	PA6-GF55	ISO 1043
Part Marking Code	>PA6-GF55<	ISO 11469

### Typical mechanical properties

	dry/cond.		
Tensile modulus	20000/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	215/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.8/-	%	ISO 527-1/-2
Flexural modulus	19000/-	MPa	ISO 178
Flexural strength	340/-	MPa	ISO 178
Charpy notched impact strength, 23°C	14.5/-	kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.33/- <sup>[C]</sup>		

[C]: Calculated

### Thermal properties

	dry/cond.		
Temperature of deflection under load, 1.8 MPa	213/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	218/*	°C	ISO 75-1/-2

### Physical/Other properties

	dry/cond.		
Density	1620/-	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
Max. mould temperature	120 °C

### Characteristics

Processing	Injection Moulding
Special characteristics	U.V. stabilised or stable to weather, Heat stabilised or stable to heat