Celanese
The chemistry inside innovation™

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/m²	ISO 179/1eA
Poisson's ratio	0.33 / -[C]		

[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/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
Special characteristics	U.V. stabilised or stable to weather, Heat stabilised or stable to heat