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Celanese
The chemistry inside innovation™

CELANYL® B2 HH GF50 BK 9005/T1

CELANYL®

Designed for demanding application, excellent mechanical performances, suitable for Automobile parts.

Product information

Resin Identification	PA6-GF50	ISO 1043
Part Marking Code	>PA6-GF50<	ISO 11469

Rheological properties

Moulding shrinkage range, parallel	0.2 - 0.5	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.5 - 0.8	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	17500 / -	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	230 / -	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5 / -	%	ISO 527-1/-2
Charpy impact strength, 23°C	95 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	14.5 / -	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	16 / -	kJ/m²	ISO 180/1A
Izod impact strength, 23°C	>80 / -	kJ/m²	ISO 180/1U
Poisson's ratio	0.33 / -[C]		

[C]: Calculated

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	225 / *	°C	ISO 11357-1/-3

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	0.8 / *	%	Sim. to ISO 62
Density	1580 / -	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
Ejection temperature	182	°C

Characteristics

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