

CELANYL® A4 HH GF40 BK 9005/H

CELANYL®

Product information

Resin Identification	PA66-GF40	ISO 1043
Part Marking Code	>PA66-GF40<	ISO 11469
Continuous Service Temperature	130 °C	IEC 60216-1

Rheological properties

Moulding shrinkage range, parallel	0.2 - 0.4 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.4 - 0.7 %	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	12500/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	190/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5/-	%	ISO 527-1/-2
Izod notched impact strength, 23°C	14/-	kJ/m ²	ISO 180/1A
Izod impact strength, 23°C	75/-	kJ/m ²	ISO 180/1U
Poisson's ratio	0.33/- ^[C]		
[C]: Calculated			

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	260/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	255/*	°C	ISO 75-1/-2

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.3/*	%	Sim. to ISO 62
Water absorption, 2mm	5/*	%	Sim. to ISO 62
Density	1450/-	kg/m ³	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	295 °C
Min. melt temperature	285 °C
Max. melt temperature	305 °C
Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	100 °C
Min. mould temperature	70 °C
Max. mould temperature	120 °C

Characteristics

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