Celanese
The chemistry inside innovation™

CELANYL® A3 H GF50 BK 9005/K

CELANYL®

General purpose grade for high mechanical performances.

Product information

Resin Identification	(PA66+PA6)-GF50	ISO 1043
Part Marking Code	>(PA66+PA6)-GF50<	ISO 11469

Rheological properties

	dry/cond.		
Viscosity number	135 / *	cm^3/g	ISO 307, 1628
Moulding shrinkage range, parallel	0.1 - 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	15500 / -	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	195 / -	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3 / -	%	ISO 527-1/-2
Charpy impact strength, 23 °C	>80 / -	kJ/m^2	ISO 179/1eU
Charpy notched impact strength, 23 °C	15 / -	kJ/m^2	ISO 179/1eA
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	235 / *	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	250 / *	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB / *	class	IEC 60695-11-10

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.1 / *	%	Sim. to ISO 62
Water absorption, 2mm	4.5 / *	%	Sim. to ISO 62
Density	1570 / -	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

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Characteristics

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