Celanese
The chemistry inside innovation™

CELANYL® A3 H GF30 TM1 BK 9005/K

CELANYL®

Car industry, Household appliances, Electrical devices.
PA66 for injection moulding, 30% glass fibre reinforced, heat stabilised and molybdenum disulfide lubricated.

Product information

Resin Identification	PA66-GF30		ISO 1043
Part Marking Code	>PA66-GF30<		ISO 11469
Continuous Service Temperature	125	°C	IEC 60216-1

Rheological properties

	dry/cond.		
Viscosity number	140 / *	cm^3/g	ISO 307, 1628
Moulding shrinkage range, parallel	0.3 - 0.5	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.8 - 1.1	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	9700 / -	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	170 / -	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.7 / -	%	ISO 527-1/-2
Charpy impact strength, 23°C	50 / -	kJ/m^2	ISO 179/1eU
Charpy notched impact strength, 23°C	7.5 / -	kJ/m^2	ISO 179/1eA
Ball indentation hardness, H 961/30	200 / -	MPa	ISO 2039-1
Poisson's ratio	0.34 / -[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	245 / *	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	250 / *	°C	ISO 75-1/-2

Electrical properties

	dry/cond.		
Volume resistivity	1E13 / -	Ohm.m	IEC 62631-3-1
Comparative tracking index	450 / -		IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.6 / *	%	Sim. to ISO 62
Water absorption, 2mm	6 / *	%	Sim. to ISO 62
Density	1360 / -	kg/m^3	ISO 1183

Characteristics

Processing	Injection Moulding
Additives	Contains Molybdenum Disulfide
Special characteristics	Low wear / Low friction, High Flow