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Celanese
The chemistry inside innovation™

CELANYL® B3 W GF30

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Car industry, Household appliances, Electrical devices.

Product information

Resin Identification	PA6-GF30		ISO 1043
Part Marking Code	>PA6-GF30<		ISO 11469
Continuous Service Temperature	120	°C	IEC 60216-1

Rheological properties

Moulding shrinkage range, parallel	0.3 - 0.6	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.6 - 0.9	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	9200 / -	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	170 / -	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	4 / -	%	ISO 527-1/-2
Charpy impact strength, 23 °C	>60 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23 °C	15 / -	kJ/m²	ISO 179/1eA
Poisson's ratio	0.34 / -[C]		

[C]: Calculated

Thermal properties

	dry/cond.		
Melting temperature, 10 °C/min	225 / *	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	210 / *	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	220 / *	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB / *	class	IEC 60695-11-10
UL recognition	yes / *		UL 94

Electrical properties

	dry/cond.		
Volume resistivity	>1E13 / -	Ohm.m	IEC 62631-3-1

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.8 / *	%	Sim. to ISO 62
Water absorption, 2mm	6.4 / *	%	Sim. to ISO 62
Density	1360 / -	kg/m³	ISO 1183

Characteristics

Processing	Injection Moulding