Celanese
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CELSTRAN® PA66-GF50-07

CELSTRAN® Long Fibre

50% long fiber glass reinforced, enhanced flow, Nylon 6/6

Product information

Resin Identification	PA66-LGF50	ISO 1043
Part Marking Code	>PA66-LGF50<	ISO 11469

Typical mechanical properties

Tensile modulus	16600	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	230	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.8	%	ISO 527-1/-2
Flexural modulus	15000	MPa	ISO 178
Flexural strength	360	MPa	ISO 178
Charpy notched impact strength, 23 °C	33	kJ/m²	ISO 179/1eA
Poisson's ratio	0.33[C]		

[C]: Calculated

Physical/Other properties

Density	1560	kg/m³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	80	°C
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.2	%
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
Hold pressure range	50 - 100	MPa

Characteristics

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

Additional information

Processing Notes

Pre-Drying

CELSTRAN PA should in principle be predried. Because of the necessary low maximum residual moisture content the use of dry air dryers is recommended. The dew point should be =< -30 °C. The time between drying and processing should be as short as possible.

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Storage

Note: Material can be over dried and may discolor.

Revised: 2024-01-23 Source: Celanese Materials Database