

CELSTRAN® PA66-GF60-02-NATURAL

CELSTRAN® Long Fibre

60% long glass fiber reinforced, heat stabilized, Nylon 6/6

Product information

Resin Identification	PA66-LGF60	ISO 1043
Part Marking Code	>PA66-LGF60<	ISO 11469

Typical mechanical properties

Tensile modulus	20500 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	285 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.8 %	ISO 527-1/-2
Flexural modulus	18700 MPa	ISO 178
Flexural strength	470 MPa	ISO 178
Charpy notched impact strength, 23°C	64 kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	66 kJ/m ²	ISO 180/1A
Izod impact strength, -40°C	76.9 kJ/m ²	ISO 180/1U
Poisson's ratio	0.33 ^[C]	

[C]: Calculated

Thermal properties

Temperature of deflection under load, 1.8 MPa	263 °C	ISO 75-1/-2
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Physical/Other properties

Density	1690 kg/m ³	ISO 1183
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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

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Additional information

Injection molding

Preprocessing

PA6&PA66 drying requirements: 4 hrs. @80° C.
A dehumidifier or desiccant dryer is recommended.

Processing

Celstran can be processed on a standard injection molding unit.
A general purpose metering screw is recommended with a zone distribution of 40% feed, 40% transition, and 20% metering.
A free flowing check ring assembly is recommended.

Melt Temp: 310-315°C.
Mold Temp: 90-100°C.

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.

Storage

Note: Material can be over dried and may discolor.

Automotive

OEM
Stellantis - Chrysler

STANDARD
MS.50017 / CPN-4329

ADDITIONAL INFORMATION
Natural