



CELSTRAN® PP-GF30-0501 P8/13

CELSTRAN® Long Fibre

Material code according to ISO 1043-1: PP High impact modified polypropylene reinforced with 30 weight percent long glass fibers. Black. The fibers are chemically coupled to the polypropylene matrix. The impact properties are enhanced. The pellets are cylindrical and normally as well as the embedded fibers 8 mm long. Parts molded of CELSTRAN have outstanding mechanical properties such as high strength and stiffness combined with high heat deflection. The notched impact strength is increased at elevated and low temperatures due to the fiber skeleton built in the parts. The long fiber reinforcement reduces creep significantly. The very isotropic shrinkage in the molded parts minimizes the warpage. Complex parts can be manufactured with high reproducibility by injection molding. Application field: Functional/structural parts for automotive

Product information

Resin Identification	PP-LGF30	ISO 1043
Part Marking Code	>PP-LGF30<	ISO 11469

Typical mechanical properties

Tensile modulus	6400	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	95	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.6	%	ISO 527-1/-2
Flexural modulus	5500	MPa	ISO 178
Flexural strength	140	MPa	ISO 178
Flexural strain at failure	3.7	%	ISO 178
Charpy impact strength, 23°C	70	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	80	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	29	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	28	kJ/m ²	ISO 179/1eA
Poisson's ratio	0.35 ^[C]		

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	158 °C	ISO 75-1/-2
Temperature of deflection under load, 8 MPa	122 °C	ISO 75-1/-2

Physical/Other properties

Density 1120 kg/m³ ISO 1183

Injection

Back pressure 3 MPa

Characteristics

Processing Injection Moulding

Delivery form Pellets

Special characteristics High impact or impact modified

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Additional information

Processing Notes

Pre-Drying

It is normally not necessary to dry CELSTRAN PP. However, should there be surface moisture (condensate) on the molding compound as a result of incorrect storage, drying is required.

Storage

The product can then be stored in standard conditions until processed.

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