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## CELSTRAN® +PP-GF40-01 | PP | Glass Reinforced

### **Description**

Material code according to ISO 1043-1: PP

Polypropylene with 40 weight percent ash content, long glass fibers reinforced. The fibers are chemically coupled to the polypropylene matrix. The pellets are cylindrical and normally as well as the embedded fibers 10 mm long.

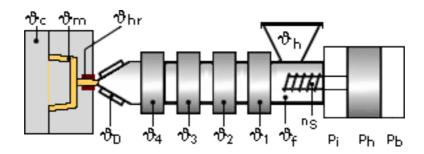
Parts molded of CELSTRAN have outstanding mechanical properties such as high strength and stiffness combined with high heat deflection. The notched impact strength is increased at elevated and low temperatures due to the fiber skeleton built in the parts. The long fiber reinforcement reduces creep significantly.

The very isotropic shrinkage in the molded parts minimizes the warpage.

Complex parts can be manufactured with high reproducibility by injection molding.

Application field: Functionial/structural parts for automotive

## Typical injection moulding processing conditions



## Pre Drying:

### Necessary low maximum residual moisture content: 0.2%

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. A circulating air drying cabinet can be used for this purpose if the gran

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

Drying time: 4 h

Drying temperature: 90 - 100 °C

### Temperature:

•	<sup>∜</sup> Manifold	<sup></sup> ∂Mold	<sup>∜</sup> Melt	<sup></sup> ∂Nozzle	<sup>∜</sup> Zone4	<sup>®</sup> Zone3	<sup>∜</sup> Zone2	<sup>®</sup> Zone1	<sup>∜</sup> Feed	
min (°C)	230	30	230	240	250	240	230	220	20	
max (°C)	270	70	270	250	250	250	240	230	50	



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	Inj press	Hold press	Back pressure	
min (bar)	600	400	0	
max (bar)	1200	800	30	

## Speed:

## Injection speed: slow

### Screw speed

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Screw diameter (mm)	16	25	40	55	75	
Screw speed (RPM)	-	-	50	35	25	

## Special Info:

Assessment of mechanical values using an injection molding machine with dedicated screw. Implementation: Feb. 2010

