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CELSTRAN® PP-GF30-0553 Black | PP | Glass Reinforced

Description

Material code according to ISO 1043-1: PP

Polypropylene copolymer reinforced with 30weight percent long glass fibers. Low emission. 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.

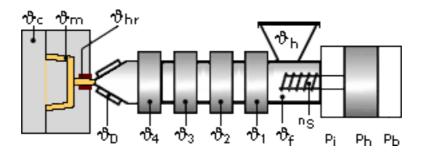
The very isotropic shrinkage in the molded parts minimizes the warpage.

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

Application field: Functionial/structural parts for automotive

Physical properties	Value	Unit	Test Standard
Density	1120	kg/m³	ISO 1183
Mechanical properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	6200	MPa	ISO 527-2/1A
Tensile stress at break (5mm/min)	107	MPa	ISO 527-2/1A
Tensile strain at break (5mm/min)	2.6	%	ISO 527-2/1A
Flexural modulus (23°C)	6050	MPa	ISO 178
Flexural strength (23°C)	164	MPa	ISO 178
Notched impact strength (Izod) @ 23°C	38.0	kJ/m²	ISO 180/1A

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.



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

Drying time: 4 h

Drying temperature: 90 - 100 °C

Temperature:

	[∜] Manifold	^ზ Mold	[®] Melt	^ϑ Nozzle	[∜] Zone4	[∿] Zone3	[∿] Zone2	[®] Zone1	[∜] Feed	
min (°C)	230	30	230	240	250	240	230	220	20	
max (°C)	270	70	270	250	250	250	240	230	50	

Pressure:

	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	

