

Description

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.

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

Application field: Functional/structural parts for automotive

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

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.

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

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

Drying time: 4 h

Drying temperature: 90 - 100 °C

Temperature:

	ϑ _{Manifold}	ϑ _{Mold}	ϑ _{Melt}	ϑ _{Nozzle}	ϑ _{Zone4}	ϑ _{Zone3}	ϑ _{Zone2}	ϑ _{Zone1}	ϑ _{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

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

