

CELSTRAN® PP-GF60-25 AD3002 Black

60% long glass fiber polypropylene specifically formulated to be used as a concentrate
 Material code according to ISO 1043-1: PP Polypropylene with 60 weight percent ash content, long glass fibers reinforced.
 Concentrate, black. The fibers are chemically coupled to the polypropylene matrix. The pellets are cylindrical and normally as well as the embedded fibers 11 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

Typical mechanical properties

Tensile Modulus	14391 MPa	ISO 527-1/-2
Stress at break, 5mm/min	149 MPa	ISO 527-1/-2
Strain at break, 5mm/min	1.55 %	ISO 527-1/-2
Flexural Modulus	15200 MPa	ISO 178
Flexural Strength	254 MPa	ISO 178
Charpy notched impact strength, 23°C	39.6 kJ/m ²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	168 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	160 °C	ISO 75-1/-2

Other properties

Density	1470 kg/m ³	ISO 1183
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Injection

Drying Temperature	90 - 100 °C
Drying Time, Dehumidified Dryer	2 h
Processing Moisture Content	0.2 %
Screw tangential speed	0.1 m/s
Max. mould temperature	30 - 70 °C
Back pressure	3 MPa
Injection speed	slow

Processing Texts

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.
Longer pre-drying times/storage	The product can then be stored in standard conditions until processed.

