



CELSTRAN® Long Fibre

Material code according to ISO 1043-1: PP Polypropylene copolymer reinforced with 30weight percent long glass fibers. Reduced emission. 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

Product information

Resin Identification Part Marking Code	PP-LGF30 >PP-LGF30<		ISO 1043 ISO 11469
Typical mechanical properties			
Tensile modulus Tensile stress at break, 5mm/min Tensile strain at break, 5mm/min Flexural modulus Flexural strength Charpy impact strength, 23°C Charpy impact strength, -30°C Charpy notched impact strength, -30°C Izod impact strength, 23°C	100 2.5 6000 150 70 80 30 29	MPa MPa kJ/m² kJ/m² kJ/m² kJ/m² kJ/m²	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eU ISO 179/1eU ISO 179/1eA ISO 180/1U
Poisson's ratio	0.35 ^[C]		
[C]: Calculated			
Thermal properties			
Temperature of deflection under load, 1.8 MPa Coefficient of linear thermal expansion (CLTE), parallel	158 19.2	°C E-6/K	ISO 75-1/-2 ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	147	E-6/K	ISO 11359-1/-2
Physical/Other properties			
Density	1120	kg/m³	ISO 1183
VDA Properties			
Emission of organic compounds Thermal desorption analysis of organic emissions Odour	89	μgC/g μg/g class	VDA 277 VDA 278 VDA 270
Injection			
Back pressure Ejection temperature	3 107	MPa °C	

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Characteristics

Processing Injection Moulding

Delivery form Pellets

Special characteristics High impact or impact modified, Low emissions

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.

Automotive

OEM STANDARD ADDITIONAL INFORMATION

 Ford
 WSS-M4D865-B4

 Ford
 WSS-M4D865-B8

 General Motors
 GMW15890P-PP-GF30E
 N/A

 Stellantis
 MS-DB-21 / PP-C.LGF30.6200F.28C.HS
 CPN4949

 Stellantis - Chrysler
 MS-DB-21 / CPN-4949
 Black

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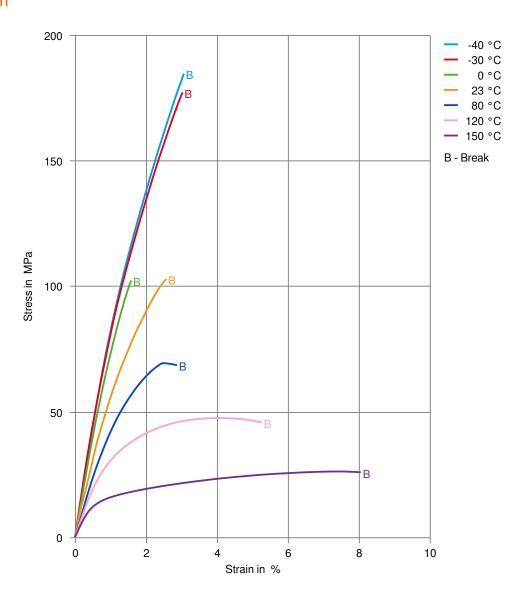
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Stress-strain



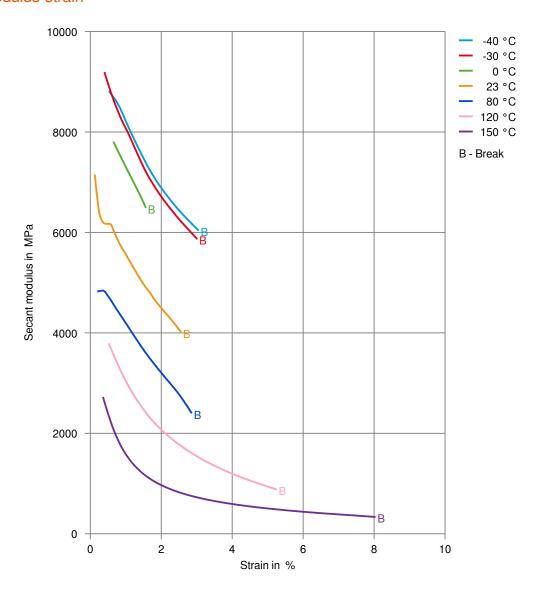
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Secant modulus-strain



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