



CELSTRAN[®] PP-GF30-0453 P10/10 CELSTRAN® Long Fibre

Material code according to ISO 1043-1: PP Polypropylene reinforced with 30weight percent long glass fibers. Black. Low 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, 23°C Charpy notched impact strength, -30° Poisson's ratio [C]: Calculated		2.2 7000 180 55 45 24	MPa %	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 179/1eA
Thermal properties				
Melting temperature, 10°C/min Temperature of deflection under load, 1.8 MPa Temperature of deflection under load, 8 MPa		166 158 122	°C	ISO 11357-1/-3 ISO 75-1/-2 ISO 75-1/-2
Physical/Other properties				
Density		1110	kg/m ³	ISO 1183
VDA Properties				
Emission of organic compounds Odour			μgC/g class	VDA 277 VDA 270
Injection				
Back pressure Ejection temperature		3 112	MPa °C	
Characteristics				
Processing	Injection Moulding			
Delivery form	Pellets			
Special characteristics	Low emissions			

Printed: 2025-05-30





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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 BAIC	STANDARD Q-BJEV 01.33	ADDITIONAL INFORMATION
BMW	GS93016	
Li Auto	Q/LiA5310050	2019 (V1)
Stellantis	B62 0300 /	01994_19_00359
VW Group	61/U4/AD1/W1/O1/E3/208E/207M+/C1 WW44045	P10/10

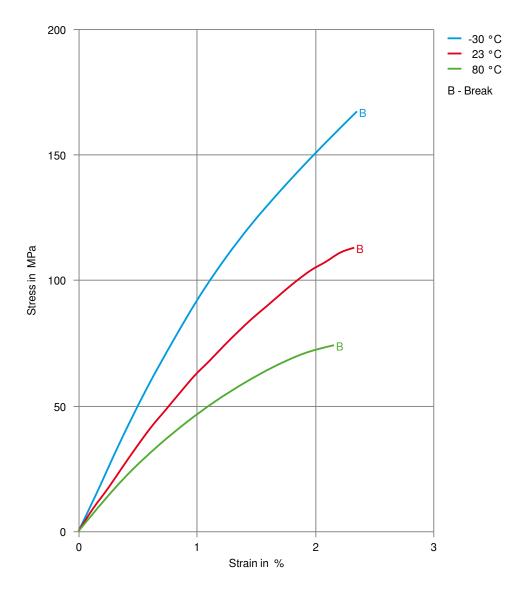
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Stress-strain



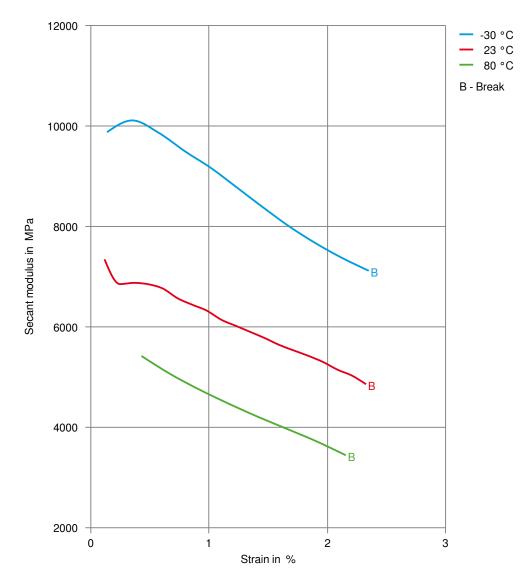




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Secant modulus-strain



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Revised: 2024-07-12 Source: Celanese Materials Database

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