

CELSTRAN[®] PP-GF30-0501P10/13

CELSTRAN® Long Fibre

Material code according to ISO 1043-1: PP Heat stabilized polypropylene reinforced with 30 weight percent long glass fibers. Black. The fibers are chemically coupled to the polypropylene matrix. The impact properties are enhanced. 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		PP-LGF30		ISO 1043
Part Marking Code		>PP-LGF30<		ISO 11469
Typical mechanical properties				
Tensile modulus		6200	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min			MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min		2.5		ISO 527-1/-2
Flexural modulus		6000	MPa MPa	ISO 178
Flexural strength Charpy impact strength, 23°C			kJ/m ²	ISO 178 ISO 179/1eU
Charpy impact strength, -30 °C			kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°	C		kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°	С		kJ/m²	ISO 179/1eA
Izod impact strength, 23°C			kJ/m²	ISO 180/1U
Poisson's ratio		0.35 ^[C]		
[C]: Calculated				
Thermal properties				
Melting temperature, 10°C/min		166		ISO 11357-1/-3
Temperature of deflection under load,		158		ISO 75-1/-2
Temperature of deflection under load,	8 MPa	122	°C	ISO 75-1/-2
Flammability				
Burning Behav. at thickness h		HB	class	IEC 60695-11-10
Thickness tested		1	mm	IEC 60695-11-10
Physical/Other properties				
Density		1120	kg/m³	ISO 1183
			5	
Injection				
Back pressure		3	MPa	
Characteristics				
Processing	Injection Moulding			
Delivery form	Pellets			
Special characteristics	High impact or impact modified			
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Additional information

Processing Notes

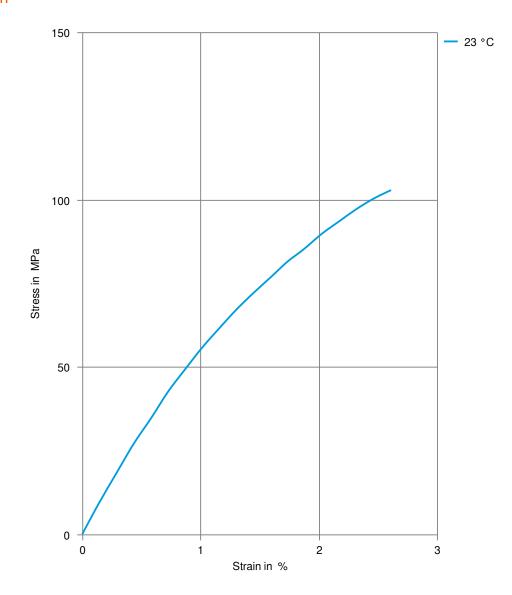
Pre-Drying

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.

Stress-strain



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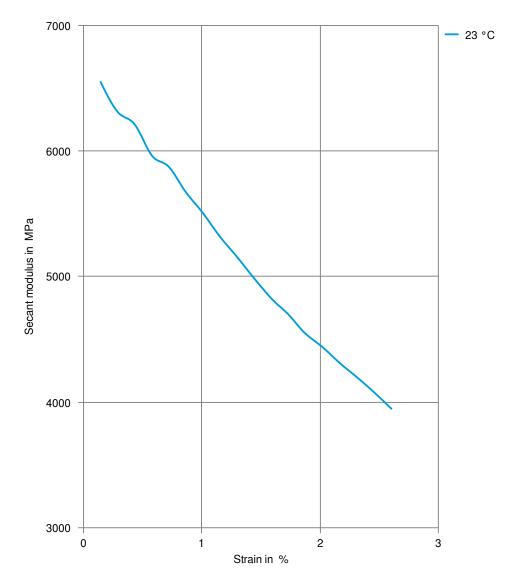




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Secant modulus-strain



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