



## CELSTRAN<sup>®</sup> PP-GF30-0403 P7 (PRELIMINARY) CELSTRAN® Long Fibre

Material code according to ISO 1043-1: PP Polypropylene reinforced with 30weight percent long glass fibers. Natural. 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		7000	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min			MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min		2.3	%	ISO 527-1/-2
Flexural modulus		7000		ISO 178
Flexural strength			MPa	ISO 178
Charpy impact strength, 23°C			kJ/m² kJ/m²	ISO 179/1eU ISO 179/1eU
Charpy impact strength, -30°C Charpy notched impact strength, 23°C	<u>.</u>		kJ/m <sup>2</sup>	ISO 179/1eO
Charpy notched impact strength, -30°			kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	-	0.35 <sup>[C]</sup>		
[C]: Calculated				
Thermal properties				
Melting temperature, 10°C/min		166		ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa		158		ISO 75-1/-2
Temperature of deflection under load,	8 MPa	134	°C	ISO 75-1/-2
Physical/Other properties				
Density		1120	kg/m³	ISO 1183
Injection				
Back pressure		3	MPa	
Characteristics				
Processing	Injection Moulding			
Delivery form	Pellets			
Additional information				
Processing Notes	Pre-Drying			
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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.

Printed: 2025-05-30



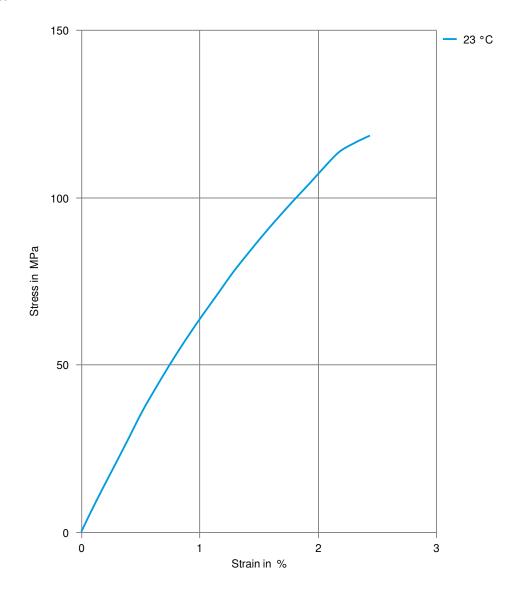


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### Storage

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

### Stress-strain

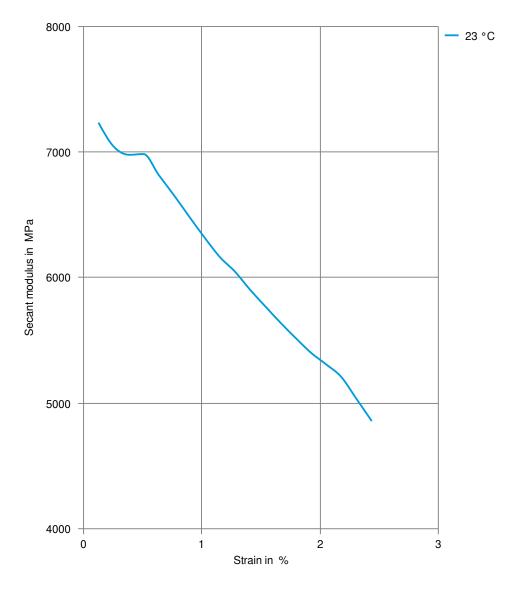






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### Secant modulus-strain



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#### Revised: 2024-01-23 Source: Celanese Materials Database

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Other than those product expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. Contained in this publication is accurate; however, we do not request as need to reduce human exposure to many materials metioned in this publication. Moreover, there is a need to reduce human exposure to many materials the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and healt

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