

### CELSTRAN<sup>®</sup> PP-GF30-0403 P10

#### PP with 30% ash content

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

#### Typical mechanical properties

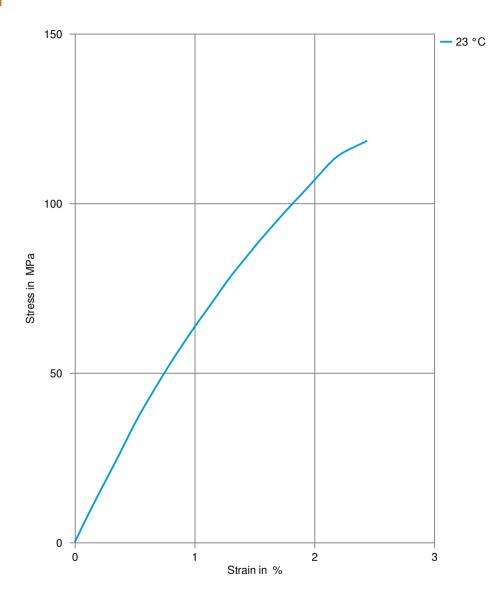
<b>M</b>			
Tensile Modulus	7000	MPa	ISO 527-1/-2
Stress at break, 5mm/min	115	MPa	ISO 527-1/-2
Strain at break, 5mm/min	2.3	%	ISO 527-1/-2
Flexural Modulus	6600	MPa	ISO 178
Flexural Strength	200	MPa	ISO 178
Charpy impact strength, 23°C	64	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	48	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	34	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30 °C	32	kJ/m²	ISO 179/1eA
Thermal properties			
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	158	°C	ISO 75-1/-2
Temp. of deflection under load, 8 MPa	134	°C	ISO 75-1/-2
Other properties			
Density	1120	kg/m³	ISO 1183
Injection			
Drying Temperature	90 - 100	°C	
Drying Time, Dehumidified Dryer		h	
Processing Moisture Content	0.2		
Screw tangential speed		m/s	
Max. mould temperature	30 - 70		
Back pressure		MPa	
Injection speed	slow		
	01011		





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Stress-strain



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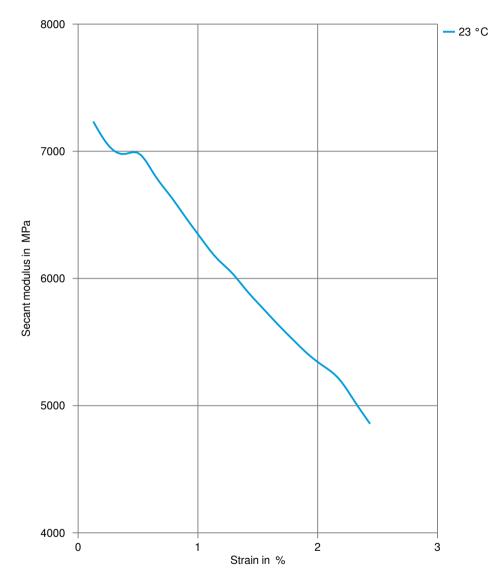






## CELSTRAN® PP-GF30-0403 P10

#### Secant modulus-strain



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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.			
The product can then be stored in standard conditions until processed.			
OEM	Specification	Additional Information	
Bosch	N28 BN09-GF027	Natural & Black	
Stellantis - Chrysler	CPN 3778	PP-GF-03 (AD3002 Black)	
	surface moisture (condensistorage, drying is required The product can then be s OEM Bosch	surface moisture (condensate) on the molding compositorage, drying is required.The product can then be stored in standard conditionsOEMSpecificationBoschN28 BN09-GF027	

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