

PP with 30% ash content

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

Rheological properties

Viscosity number	119	cm ³ /g	ISO 307, 1157, 1628
Typical mechanical properties			
Tensile Modulus	7000	MPa	ISO 527-1/-2
Stress at break, 5mm/min	110	MPa	ISO 527-1/-2
Strain at break, 5mm/min	2.2		ISO 527-1/-2
Flexural Modulus		MPa	ISO 178
Flexural Strength		MPa	ISO 178
Charpy impact strength, 23°C		kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C		kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C		kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	22	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		ISO 75-1/-2
Temp. of deflection under load, 8 MPa	122		ISO 75-1/-2
Flammability			
Burning Behav. at thickness h	HB	class	UL 94
Thickness tested	2.00		UL 94
This will be to the total of th	2.00		3201
Other properties			
Density	1120	kg/m³	ISO 1183
Injection			
Drying Temperature	90 - 100	°C	
Drying Time, Dehumidified Dryer		h	
Processing Moisture Content	0.2		
Melt Temperature Optimum	250		Internal
Screw tangential speed		m/s	
Max. mould temperature	30 - 70		
Back pressure		MPa	
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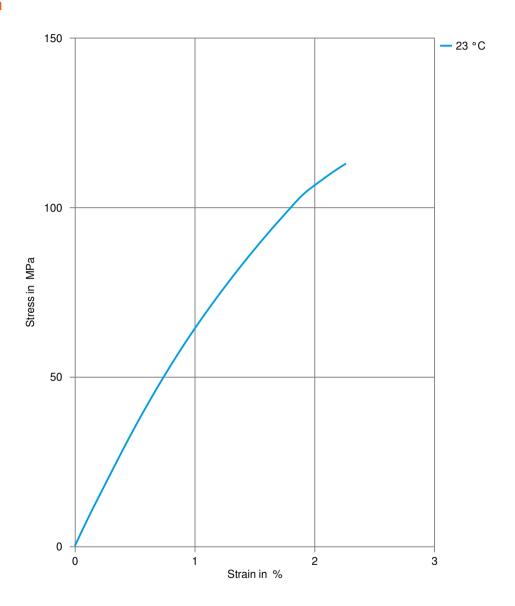


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Injection speed slow

Stress-strain



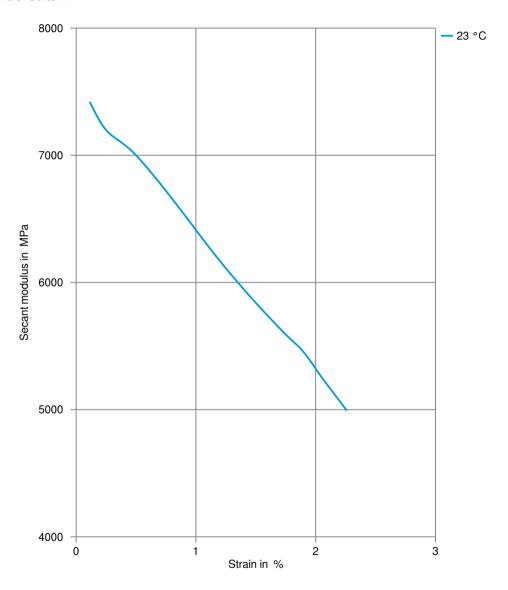
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Secant modulus-strain



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Processing Texts

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.

Longer pre-drying times/storage The product can then be stored in standard conditions until processed.

Other Approvals

Other Approvals

OEM	Specification	Additional Information
GM	GMW15890P-PP- GF30E	Black (limited approval)

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