

Product Texts

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

Flammability at thickness h (1 mm) HB

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	6200	MPa	ISO 527
^[C] Stress at break	100	MPa	ISO 527
^[C] Strain at break	2.5	%	ISO 527
^[C] Charpy impact strength, +23°C	70	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	80	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	30	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	29	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	158	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	122	°C	ISO 75-1/-2
^[C] Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	1.0	mm	-

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1120	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Pellets, Black

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Features

Chemically Coupled Reinforcement, Creep Resistance, Long fiber reinforced, Low Warpage

Applications

Automotive

Regional Availability

North America, Europe, Asia Pacific