CELSTRAN® PP-GF60-0403 P10/10

PP-GLF60 Celanese

Product Texts

Material code according to ISO 1043-1: PP Polypropylene with 60 weight percent ash content, long glass fibers reinforced, concnetrat, 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

Flammability at thickness h (1 mm)	HB	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**15000**	MPa	ISO 527
[C] Stress at break	**145**	MPa	ISO 527
[C] Strain at break	**1.5**	%	ISO 527
[C] Charpy impact strength, +23°C	**68**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**70**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**33**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**38**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**168**	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**160**	°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	**1430**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Pellets, Black

Special Characteristics
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