

Product Texts

Material code according to ISO 1043-1: PA66 Nylon 66/6 Copolymer reinforced by 50 weight percent long glass fibers. The pellets are cylindrical and normally as well as the embedded fibers 7.5 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. Can be used for substituting die cast metal with the advantage of Weight reduction, no corrosion problems, no post treatment.

Flammability at thickness h (1.5 HB mm)

UL recognition (h)

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	16400 / 11800	MPa	ISO 527
^[C] Stress at break	220 / 160	MPa	ISO 527
^[C] Strain at break	1.6 / 2	%	ISO 527
^[C] Charpy impact strength, +23°C	61 / 40	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	59 / -	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	35 / 30	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	36 / -	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	240 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	235 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 8.00 MPa	220 / *	°C	ISO 75-1/-2
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Density	- / 1560	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

U.V. stabilized or stable to weather

Features

Creep Resistance, Long fiber reinforced, Low Warpage, Copolymer

Regional Availability

North America, Europe, Asia Pacific