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CELSTRAN® PA66-GF50-0111P7.5/11

PA66/6 copolymer with 50% ash content - 7.5mm

Material code according to ISO 1043-1: PA66

Nylon 6.6/6 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.

Typical mechanical properties	dry/cond.		
Tensile Modulus	16400/11600	MPa	ISO 527-1/-2
Stress at break, 5mm/min	275/0	MPa	ISO 527-1/-2
Stress at break, 50mm/min	180/180	MPa	ISO 527-1/-2
Strain at break, 5mm/min	2.25/2.5	%	ISO 527-1/-2
Flexural Modulus	13500/11500	MPa	ISO 178
Flexural Strength	380/300	MPa	ISO 178
Charpy impact strength, 23°C	100/50	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	80/-	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	40/36	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	42/-	kJ/m²	ISO 179/1eA
Thermal properties			
Melting temperature, 10°C/min	240	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	235	_	ISO 75-1/-2
Temp. of deflection under load, 8 MPa	220		ISO 75-1/-2
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Flammability			
Burning Behav. at thickness h	HB	class	UL 94
Thickness tested	1.50	mm	UL 94
UL recognition	yes		UL 94
Other properties			
Density	1560	kg/m³	ISO 1183
Injection			
Injection			
Drying Temperature	70 - 80		
Drying Time, Dehumidified Dryer	2 - 4		
Processing Moisture Content	0.15		
Screw tangential speed	0.1	m/s	





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Max. mould temperature Back pressure Injection speed 90 - 120 °C 3 MPa medium