

CELSTRAN® PA66-GF50-20 AD3007

PA66 with 50% ash content - high gloss, high impact modified

Material code according to ISO 1043-1: PA66

Heat stabilized Nylon 66 reinforced by 50 weight percent long glass fibers. 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.

Can be used for substituting die cast metal with the advantage of Weight reduction, no corrosion problems, no post treatment.

Rheological properties

132	cm ³ /g	ISO 307, 1157, 1628
dry/cond.		
16400/12000	MPa	ISO 527-1/-2
265/185	MPa	ISO 527-1/-2
2.05/2.1	%	ISO 527-1/-2
14400/11500	MPa	ISO 178
430/290	MPa	ISO 178
87/85	kJ/m²	ISO 179/1eU
		ISO 179/1eU
		ISO 179/1eA
45/42	kJ/m²	ISO 179/1eA
260	°C	ISO 11357-1/-3
255	°C	ISO 75-1/-2
235	°C	ISO 75-1/-2
1560	kg/m³	ISO 1183
70 - 80	°C	
0.1	m/s	
90 - 120	°C	
3	MPa	
medium		
	dry/cond. 16400/12000 265/185 2.05/2.1 14400/11500 430/290 87/85 78/62 52/38 45/42 260 255 235 1560 70 - 80 2 - 4 0.15 0.1 90 - 120 3	16400/12000 MPa 265/185 MPa 2.05/2.1 % 14400/11500 MPa 430/290 MPa 87/85 kJ/m² 78/62 kJ/m² 52/38 kJ/m² 45/42 kJ/m² 260 °C 255 °C 235 °C 1560 kg/m³ 70 - 80 °C 2 - 4 h 0.15 % 0.1 m/s 90 - 120 °C 3 MPa



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