Celstran® PA66-GF50-02 AD3007

Polyamide 66

Celanese Corporation

Message:

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 10 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.

General Information				
Filler / Reinforcement	Long glass fiber, 50% filler by weight			
Additive	heat stabilizer			
Features	Low warpage			
	Rigidity, high			
	High strength			
	Impact resistance, good			
	Good creep resistance			
	Low temperature impact resistance			
	Thermal Stability			
Uses	Metal substitution			
RoHS Compliance	Contact manufacturer			
Forms	Particle			
Processing Method	Injection molding			
Resin ID (ISO 1043)	PA66			
Physical	Nominal Value	Unit	Test Method	
Density	1.57	g/cm³	ISO 1183	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	16300	MPa	ISO 527-2/1A/1	
Tensile Stress (Break)	245	MPa	ISO 527-2/1A/5	
Tensile Strain (Break)	1.9	%	ISO 527-2/1A/5	
Flexural Modulus (23°C)	15100	MPa	ISO 178	
Flexural Stress (23°C)	410	MPa	ISO 178	
Thermal	Nominal Value	Unit	Test Method	

Melting Temperature ¹	260	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 80.0	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.15	%	
Hopper Temperature	70.0 - 80.0	°C	
Rear Temperature	280 - 285	°C	
Middle Temperature	280 - 290	°C	
Front Temperature	290 - 300	°C	
Nozzle Temperature	310 - 320	°C	
Processing (Melt) Temp	310 - 320	°C	
Mold Temperature	90.0 - 120	°C	
Injection Pressure	120 - 150	MPa	
Injection Rate	Moderate		
Holding Pressure	50.0 - 80.0	MPa	
Back Pressure	0.00 - 3.00	MPa	
Injection instructions			

Manifold Temperature: 300 to 315°CZone 4 Temperature: 300 to 310°CFeed Temperature: 20 to 50°C

NOTE

1. 10°C/min

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

