Celstran® PA66-GF50-02 P11

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 11mm 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	Good Creep Resistance Good Impact Resistance Heat Stabilized High Stiffness High Strength Low Temperature Impact Resistance Low Warpage		
Uses	Metal Replacement		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA66		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.56	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	16400	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	260	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.2	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	14900	MPa	ISO 178
Flexural Stress (23°C)	425	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength (23°C)	40	kJ/m^2	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Melting Temperature [1]	260	°C	ISO 11357-3
NOTE			
1.	10°C/min		

Recommended distributors for this material

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