Celstran® POM-GF25-04 AF3001

Acetal (POM) Copolymer

Celanese Corporation

Message:

Material code according to ISO 1043-1: POM

Acetal copolymer reinforced with 25 weight percent long glass fibers. The fibers are chemically coupled to the POM matrix. 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.

Application field: Functionial/structural parts for automotive

General Information					
Filler / Reinforcement	Long glass fiber, 25% filler by weight				
Features	Rigidity, high				
	High strength				
	Copolymer				
	Chemical coupling				
	Impact resistance, good				
	Good creep resistance				
	Low temperature impact resistance				
Uses	Application in Automobile Field				
RoHS Compliance	Contact manufacturer				
Forms	Particle				
Processing Method	Injection molding				
Resin ID (ISO 1043)	РОМ				
Physical	Nominal Value	Unit	Test Method		
Density	1.59	g/cm³	ISO 1183		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	10300	МРа	ISO 527-2/1A/1		
Tensile Stress (Break)	177	МРа	ISO 527-2/1A/5		
Tensile Strain (Break)	2.4	%	ISO 527-2/1A/5		
Flexural Modulus (23°C)	9190	MPa	ISO 178		
Flexural Stress (23°C)	265	MPa	ISO 178		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength (23°C)	35	kJ/m²	ISO 179/1eA		
Injection	Nominal Value	Unit			
Drying Temperature	80.0 - 90.0	°C			
Drying Time	3.0	hr			
Suggested Max Moisture	0.15	%			

Rear Temperature	180 - 195	°C	
Middle Temperature	190 - 200	°C	
Front Temperature	195 - 205	°C	
Nozzle Temperature	195 - 205	°C	
Processing (Melt) Temp	195 - 205	°C	
Mold Temperature	70.0 - 110	°C	
Injection Pressure	60.0 - 120	MPa	
Injection Rate	Moderate		
Holding Pressure	60.0 - 120	MPa	
Back Pressure	0.00 - 3.00	MPa	
Injection instructions			

Feed Temperature: 20 to 50°CZone 4 Temperature: 195 to 205°CManifold Temperature: 195 to 205°C

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