Celstran POM-GF35-04 AF3001

Acetal (POM) Copolymer

Celanese Corporation

Message:

Material code according to ISO 1043-1: POM

Acetal copolymer reinforced with 35 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, 35% 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)	POM			
Physical	Nominal Value	Unit	Test Method	
Density	1.65	g/cm³	ISO 1183	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	12000	MPa	ISO 527-2/1A/1	
Tensile Stress (Break)	182	MPa	ISO 527-2/1A/5	
Tensile Strain (Break)	2.1	%	ISO 527-2/1A/5	
Flexural Modulus (23°C)	10900	MPa	ISO 178	
Flexural Stress (23°C)	285	MPa	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength (23°C)	41	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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