

Celstran® PP-GF20-03 natural

Polypropylene Homopolymer

Celanese Corporation

Message:

Polypropylene homopolymer reinforced with 20 weight percent long glass fibers. The fibers are chemically coupled to the polypropylene matrix. Then pellets are cylindrical and normally as well as the embedded fibers 10mm long
Developed for aesthetic applications requiring good impact with a class A appearance.

General Information			
Filler / Reinforcement	Long glass fiber, 20% filler by weight		
Features	Chemical coupling		
	Homopolymer		
	Impact resistance, good		
	Good appearance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP		
Physical	Nominal Value	Unit	Test Method
Density	1.01	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow	0.70	%	ISO 294-4
Flow	0.47	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5400	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	105	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	5150	MPa	ISO 178
Flexural Stress (23°C)	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	23	kJ/m ²	ISO 179/1e
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	157	°C	ISO 75-2/A
Injection	Nominal Value	Unit	
Rear Temperature	220 - 230	°C	
Middle Temperature	230 - 240	°C	
Front Temperature	240 - 250	°C	
Nozzle Temperature	240 - 250	°C	
Processing (Melt) Temp	230 - 270	°C	

Mold Temperature	30 - 70	°C
Injection Pressure	60.0 - 120	MPa
Injection Rate	Slow	
Holding Pressure	40.0 - 80.0	MPa
Back Pressure	0.00 - 3.00	MPa

Injection instructions

Feed Temperature: 20 to 50°CZone 4 Temperature: 250°CManifold Temperature: 230 to 270°C

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