

Celstran® PP-GF30-02 AF 3001

Polypropylene

Celanese Corporation

Message:

30% long glass fiber reinforced polypropylene

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792, ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-40°C	8690	MPa	ASTM D638
23°C	6410	MPa	ASTM D638
93°C	3790	MPa	ASTM D638
--	6930	MPa	ISO 527-2/1A/1
Tensile Strength			
Fracture, -40°C	141	MPa	ASTM D638
Fracture, 23°C	108	MPa	ASTM D638
Fracture, 93°C	66.9	MPa	ASTM D638
Fracture	130	MPa	ISO 527-2/1A/5
Tensile Elongation			
Fracture, -40°C	2.1	%	ASTM D638
Fracture, 23°C	2.4	%	ASTM D638
Fracture, 93°C	2.8	%	ASTM D638
Fracture	2.6	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	6950	MPa	ISO 178
Flexural Stress (23°C)	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	38	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	149	°C	ASTM D648
1.8 MPa, not annealed	150	°C	ISO 75-2/A
Injection	Nominal Value	Unit	
Drying Temperature	90.0 - 100	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	200 - 210	°C	
Middle Temperature	210 - 220	°C	

Front Temperature	220 - 230	°C
Nozzle Temperature	230 - 240	°C
Processing (Melt) Temp	230 - 240	°C
Mold Temperature	40.0 - 70.0	°C

Injection instructions

Feed Temperature: 20 to 50°CZone 4 Temperature: 230 to 240°C

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Recommended distributors for this material

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