

Celstran® PP-GF50-02- Natural

Polypropylene

Celanese Corporation

Message:

50% long strand glass fiber chemically coupled polypropylene, Natural

General Information			
Filler / Reinforcement	Long glass fiber, 50% filler by weight		
Features	Chemical coupling		
Appearance	Natural color		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	11000	MPa	ASTM D638
--	11600	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	148	MPa	ISO 527-2/1A/5
Tensile Elongation			
Fracture, 23°C	1.4	%	ASTM D638
Fracture	1.9	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	12000	MPa	ISO 178
Flexural Stress			
23°C	252	MPa	ISO 178
Fracture, 23°C	121	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	44	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	154	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	90.0 - 100	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	220 - 230	°C	
Middle Temperature	220 - 230	°C	
Front Temperature	230 - 250	°C	
Nozzle Temperature	230 - 250	°C	
Processing (Melt) Temp	230 - 250	°C	
Mold Temperature	40.0 - 70.0	°C	
Injection instructions			

Zone 4 Temperature: 230 to 2550°C Feed Temperature: 20 to 50°C

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