

Celstran® PP-GF20-02 Black

Polypropylene
Celanese Corporation

Message:

Celstran PP-GF20-02 is a 20% long glass fiber Polypropylene. This material imparts excellent impact and modulus properties that exceed that short fiber polypropylene.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Impact resistance, good		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow	3.0E-3	%	ASTM D955
Transverse flow	4.0E-3	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	89.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.4	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	4900	MPa	ISO 178
Flexural Stress (23°C)	143	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	kJ/m ²	ISO 179/1eA
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	30.0 - 70.0	°C	
Injection Pressure	60.0 - 120	MPa	
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°C

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