

Celstran® PP-GF40-02

Polypropylene

Celanese Corporation

Message:

40% long strand glass fiber reinforced polypropylene

General Information			
UL YellowCard	E113269-100172639	E113269-237803	
Filler / Reinforcement	Long glass fiber, 40% filler by weight		
Features	Chemical coupling		
RoHS Compliance	Contact manufacturer		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792, ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-40°C	11700	MPa	ASTM D638
23°C	9170	MPa	ASTM D638
93°C	5690	MPa	ASTM D638
--	7700	MPa	ISO 527-2/1A/1
Tensile Strength			
Fracture, -40°C	176	MPa	ASTM D638
Fracture, 23°C	117	MPa	ASTM D638
Fracture, 93°C	72.4	MPa	ASTM D638
Fracture	102	MPa	ISO 527-2/1A/5
Tensile Elongation			
Fracture, -40°C	1.8	%	ASTM D638
Fracture, 23°C	1.9	%	ASTM D638
Fracture, 93°C	2.4	%	ASTM D638
Fracture	2.1	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	8060	MPa	ISO 178
Flexural Stress (23°C)	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	23	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	152	°C	ASTM D648, 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	210 - 220	°C
Middle Temperature	220 - 230	°C
Front Temperature	230 - 240	°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 250°C Feed Temperature: 20 to 50°C

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