

Celstran® PP-GF40-23 Natural

Polypropylene

Celanese Corporation

Message:

Celstran PP-GF40-23 is a 40% long glass fiber Polypropylene. The -23 can be used in food contact applications since all of the raw materials contained within are FDA compliant. This material imparts excellent impact and modulus properties that exceed that of short glass fiber polypropylene.

General Information			
Filler / Reinforcement	Long glass fiber, 40% filler by weight		
Features	Rigid, good		
	Impact resistance, good		
	Compliance of Food Exposure		
Uses	Non-specific food applications		
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9090	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	147	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.4	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	8970	MPa	ISO 178
Flexural Stress (23°C)	241	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	45	kJ/m ²	ISO 179/1eA
Injection	Nominal Value	Unit	
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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