



# Celstran® PP-GF20-23 Natural

## Celanese Corporation - Polypropylene

Tuesday, November 5, 2019

### General Information

#### Product Description

Celstran PP-GF20-23 is a 20% 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

Material Status	• Commercial: Active	
Availability	• Europe	• North America
Filler / Reinforcement	• Long Glass Fiber, 20% Filler by Weight	
Features	• Food Contact Acceptable	• Good Impact Resistance
Appearance	• Natural Color	

### ASTM & ISO Properties<sup>1</sup>

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density	1.01	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Modulus	667000	psi	ISO 527-2/1A/1
Tensile Stress (Break)	12800	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	670000	psi	ISO 178
Flexural Stress (73°F)	21000	psi	ISO 178
<b>Impact</b>			
Charpy Notched Impact Strength (73°F)	9.0	ft·lb/in <sup>2</sup>	ISO 179/1eA

### Processing Information

	Nominal Value	Unit
<b>Injection</b>		
Rear Temperature	428 to 446	°F
Middle Temperature	446 to 464	°F
Front Temperature	464 to 482	°F
Nozzle Temperature	464 to 482	°F
Processing (Melt) Temp	446 to 518	°F
Mold Temperature	86 to 158	°F
Injection Pressure	8700 to 17400	psi
Injection Rate	Slow	
Holding Pressure	5800 to 11600	psi
Back Pressure	0.00 to 435	psi

#### Injection Notes

Feed Temperature: 20 to 50°C  
 Zone 4 Temperature: 250°C  
 Manifold Temperature: 230 to 270°C

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

UL and the UL logo are trademarks of UL LLC © 2019. All Rights Reserved.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.