



# Celstran® TPU-GF40-01

Celanese Corporation - Thermoplastic Polyurethane Elastomer

Wednesday, November 6, 2019

## General Information

### Product Description

40% long strand glass fiber reinforced thermoplastic polyurethane

### General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Long Glass Fiber, 40% Filler by Weight		
RoHS Compliance	• Contact Manufacturer		

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

Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.61E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	30500	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	1.46E+6	psi	ISO 178
Flexural Stress (73°F)	45700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	23	ft·lb/in <sup>2</sup>	ISO 179/1eA
Notched Izod Impact Strength			ISO 180/1A
-22°F	16	ft·lb/in <sup>2</sup>	
73°F	19	ft·lb/in <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	194	°F	ISO 75-2/A

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.050	%
Hopper Temperature	158 to 176	°F
Rear Temperature	464 to 482	°F
Middle Temperature	473 to 491	°F
Front Temperature	473 to 500	°F
Nozzle Temperature	473 to 500	°F
Processing (Melt) Temp	473 to 500	°F
Mold Temperature	158 to 194	°F

### Injection Notes

Feeding zone temperature: 20 to 50°C

Zone4 temperature: 245 to 260°C

Hot runner temperature: 250 to 260°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.