



## Celstran® PP-GF40-10

Celanese Corporation - Polypropylene

Tuesday, November 5, 2019

### General Information

#### Product Description

40% long strand glass fiber reinforced, chemically coupled and heat stabilized polypropylene. Black

#### General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Long Glass Fiber, 40% Filler by Weight
Additive	• Heat Stabilizer
Features	• Chemically Coupled • Heat Stabilized
RoHS Compliance	• Contact Manufacturer
Automotive Specifications	• CHRYSLER MS-DB-21 Type A CPN4451 Color: Color As Noted On Drawing
Appearance	• Black

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.21		ASTM D792
Density	1.21	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.24E+6	psi	ASTM D638
Tensile Modulus	1.14E+6	psi	ISO 527-2/1A/1
Tensile Strength (Break, 73°F)	18100	psi	ASTM D638
Tensile Stress (Break)	13900	psi	ISO 527-2/1A/5
Tensile Elongation (Break, 73°F)	2.1	%	ASTM D638
Tensile Strain (Break)	1.9	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	1.16E+6	psi	ISO 178
Flexural Stress (73°F)	24700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	8.6	ft-lb/in <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	306	°F	ASTM D648

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	194 to 212	°F
Drying Time	2.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	392 to 410	°F
Middle Temperature	410 to 428	°F
Front Temperature	410 to 446	°F
Nozzle Temperature	410 to 446	°F
Processing (Melt) Temp	410 to 446	°F
Mold Temperature	104 to 158	°F

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### Injection Notes

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Zone 4 Temperature: 210 to 230°C

Feed Temperature: 20 to 50°C

### Notes

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