

# HiFill® PP GF10 CC

Polypropylene

TP Composites, Inc.

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 10% Filler by Weight
Features	• Chemically Coupled
Forms	• Pellets

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.978 g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.70 %	ASTM D955
Water Absorption (24 hr)	0.010 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Yield)	55.2 MPa	ASTM D638
Tensile Elongation (Yield)	4.0 %	ASTM D638
Flexural Modulus	2760 MPa	ASTM D790
Flexural Strength (Yield)	68.9 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (3.18 mm)	80 J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	400 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	85	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed	135 °C	
1.8 MPa, Unannealed	132 °C	
Melting Temperature	163 °C	
CLTE - Flow	0.000054 cm/cm/°C	ASTM D696

Electrical	Nominal Value Unit	Test Method
Volume Resistivity	1.0E+16 ohm·cm	ASTM D257
Dielectric Strength <sup>2</sup>	22 kV/mm	ASTM D149

Flammability	Nominal Value Unit	Test Method
Flame Rating	HB	UL 94

## Notes

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

<sup>2</sup> Method A (Short-Time)

