

HiFill® PP GB20

Polypropylene

TP Composites, Inc.

Technical Data

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
Search for UL Yellow Card	• TP Composites, Inc.
Availability	• North America
Filler / Reinforcement	• Glass Bead, 20% Filler by Weight
Forms	• Pellets

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.04 g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	2.0 %	ASTM D955
Water Absorption (24 hr)	0.020 %	ASTM D570
Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Yield)	26.2 MPa	ASTM D638
Tensile Elongation (Yield)	10 %	ASTM D638
Flexural Modulus	1590 MPa	ASTM D790
Flexural Strength (Yield)	33.8 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (3.18 mm)	32 J/m	ASTM D256
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	95	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed	113 °C	
1.8 MPa, Unannealed	62.8 °C	
Melting Temperature	170 °C	
CLTE - Flow	0.000067 cm/cm/°C	ASTM D696
Electrical	Nominal Value Unit	Test Method
Volume Resistivity	1.0E+16 ohm·cm	ASTM D257
Dielectric Strength ³	20 kV/mm	ASTM D149

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ Method A (Short-Time)

