

HiFill FR® PA6/6 GF50 FR UV X BK

Polyamide 66

TP Composites, Inc.

Technical Data

General

Filler / Reinforcement	• Glass Fiber Reinforcement
Additive	• Flame Retardant • UV Stabilizer
Features	• Flame Retardant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.78 g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20 %	ASTM D955
Water Absorption (24 hr)	0.35 %	ASTM D570
Mechanical	Nominal Value Unit	Test Method
Tensile Strength	217 MPa	ASTM D638
Tensile Elongation (Yield)	2.0 %	ASTM D638
Flexural Modulus	16500 MPa	ASTM D790
Flexural Strength (Yield)	317 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (3.18 mm)	130 J/m	ASTM D256
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	121	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	260 °C	ASTM D648
CLTE - Flow	0.000016 cm/cm/°C	ASTM D696
Electrical	Nominal Value Unit	Test Method
Volume Resistivity	1.0E+16 ohm·cm	ASTM D257
Dielectric Strength ³	2.0 kV/mm	ASTM D149
Flammability	Nominal Value Unit	Test Method
Flame Rating (1.50 mm)	V-0	UL 94

