

HiFill FR® PP GF10 FR BK

Techmer Polymer Modifiers - Polypropylene

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	• Flame Retardant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.45		ASTM D792
Molding Shrinkage - Flow (0.125 in)	5.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.010	%	ASTM D570
Mechanical			
Tensile Strength (Break)	5000	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	600000	psi	ASTM D790
Flexural Strength	6000	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	0.65	ft-lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	4.5	ft-lb/in	ASTM D256
Hardness			
Rockwell Hardness (R-Scale)	100		ASTM D785
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	305	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	280	°F	ASTM D648
CLTE - Flow	2.1E-5	in/in/°F	ASTM D696
Electrical			
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	500	V/mil	ASTM D149
Flammability			
Flame Rating	V-0		UL 94

