

HiFill® PC / PBT GF 30 BK

Techmer Polymer Modifiers - Polycarbonate + PBT

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.50		ASTM D792
Molding Shrinkage - Flow (0.125 in)	6.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	15500	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	900000	psi	ASTM D790
Flexural Strength	26500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.250 in)	2.2	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	410	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	344	°F	ASTM D648
CLTE - Flow	1.3E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	210	°F
Drying Time	4.0	hr
Rear Temperature	460 to 510	°F
Middle Temperature	460 to 510	°F
Front Temperature	460 to 510	°F
Processing (Melt) Temp	460 to 510	°F
Mold Temperature	130 to 200	°F
Back Pressure	25.0 to 60.0	psi
Screw Speed	30 to 60	rpm

