

# HiFill® PET GF20 UV BK

Polyethylene Terephthalate  
Techmer Engineered Solutions

Message:

HiFill® PET GF20 UV BK is a Polyethylene Terephthalate (PET) product filled with 20% glass fiber. It can be processed by injection molding and is available in North America.  
Characteristics include:  
Flame Rated  
UV Stabilized

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	UV Stabilizer		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	114	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	91	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	246	°C	
1.8 MPa, Unannealed	224	°C	
CLTE - Flow	9.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength <sup>1</sup>	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	

Drying Time	4.0	hr
Rear Temperature	271 to 288	°C
Middle Temperature	271 to 288	°C
Front Temperature	271 to 288	°C
Processing (Melt) Temp	274	°C
Mold Temperature	93.3 to 110	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	30 to 60	rpm

NOTE

1.
- Method A (Short-Time)

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Recommended distributors for this material


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