

HiFill® PBAT BF30

 Techmer Polymer Modifiers - *Polybutylene Adipate-Co-Terephthalate*

General Information

Product Description

PBIO116290

General

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

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.27		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.6	g/10 min	ASTM D1238
Mechanical			
Nominal Value Unit Test Method			
Tensile Modulus	73000	psi	ASTM D638
Tensile Strength (Yield)	1900	psi	ASTM D638
Tensile Strength (Break)	1400	psi	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	80000	psi	ASTM D790
Flexural Strength	2700	psi	ASTM D790
Impact			
Nominal Value Unit Test Method			
Notched Izod Impact (73°F, 0.125 in)	4.0	ft-lb/in	ASTM D256
Thermal			
Nominal Value Unit Test Method			
Deflection Temperature Under Load (66 psi, Unannealed)	158	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	104	°F	ASTM D648
Electrical			
Nominal Value Unit Test Method			
Volume Resistivity	> 1.0E+14	ohms·cm	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	130	°F
Drying Time	1.0 to 2.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	360 to 390	°F
Middle Temperature	370 to 400	°F
Front Temperature	380 to 410	°F
Nozzle Temperature	385 to 420	°F
Processing (Melt) Temp	370 to 415	°F
Mold Temperature	50 to 125	°F
Back Pressure ²	50.0 to 100	psi

Notes

¹ Typical properties: these are not to be construed as specifications.

² Minimize to maintain fiber integrity
