HiFill® PETG 1701 3DP

Techmer Polymer Modifiers - *Polyethylene Terephthalate Glycol Comonomer*

General Information

Product Description

HiFill® PETG 1701 3DP is a specially formulated, glass fiber filled, and compounded thermoplastic material designed for general purpose additive manufacturing applications. This product has been optimized for maximum printability in additive manufacturing.

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber
Processing Method	• 3D Printing

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity [2]	1.50		ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ASTM D638
-- [3]	791000	psi	
-- [4]	387000	psi	
-- [2]	1.20E+6	psi	
Tensile Strength			ASTM D638
Yield [3]	10200	psi	
Yield [4]	4880	psi	
Yield [2]	14000	psi	
Tensile Elongation			ASTM D638
Break [3]	0.020	%	
Break [4]	0.010	%	
Break [2]	2.5	%	
Flexural Modulus [2]	1.10E+6	psi	ASTM D790
Flexural Strength [2]	21500	psi	ASTM D790
Poisson's Ratio [3]	0.37		
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [3]	1.5	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load [2] (66 psi, Unannealed)	170	°F	ASTM D648
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Recommended Print Bed	Heated aluminum bed with cement glue, PC sheet, glass expoy laminate board, pellet coated bead board		
Recommended Print Bed Temperature	248 to 266	°F	

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	170	°F
Drying Time	1.0 to 6.0	hr
Cylinder Zone 1 Temp.	370 to 400	°F
Cylinder Zone 2 Temp.	380 to 420	°F
Cylinder Zone 3 Temp.	420 to 460	°F
Cylinder Zone 4 Temp.	420 to 460	°F
Melt Temperature	410 to 460	°F
Die Temperature	420 to 480	°F

Extrusion Notes

If material is to remain in dryer for more than 6 hours in dried state, reduce dryer temperature to 100°F to prevent degradation of material.