Innofil^{3D} PP GF30 Polypropylene Glass Fiber 30%

Innofil3D PP GF30 is a polypropylene reinforced with 30% glass fibers. The fibers in this compound are specially designed for 3D-printing filaments and are compatible with a wide range of standard FFF 3D-printers. The extreme stiffness makes this material highly suitable for demanding industrial applications. Key properties of PP GF30 are:

- Extremely high stiffness
- High heat resistance
- UV-resistant
- Chemical resistant

PP GF30 is a functional 3D printing filament which can be used in high performance-applications. The excellent mechanical properties, high temperature- and chemical resistance make this filament highly suitable in an industrial environment. To provide users with valuable information we have collected data regarding the mechanical properties of the 3D-printed specimens according to the ISO standards.

For more information go to www.innofil3d.com/material-data

PP GF PRINT SETTINGS

PRINT TEMP | 240 ± 10°C PRINT SPEED | 40 - 80 mm/s GLASS BED TEMP* | 30°C

FAN SPEED | Up to 100% NOZZLE** | 0.6 mm BED ADHESION | Strapping tape

(Scotch extreme)

PP PAHT PET ABS PRO1 ASA HIPS

EASY TO PRINT DIMENSIONAL STABILITY TENSILE STRENGTH **BENDING STRENGTH** IMPACT RESISTANCE **UV RESISTANCE** HEAT RESISTANCE POST PROCESSING

6-30	U		031014				
+	++	++	++	++	+	+	+
++	++	+	+	++	- 1	-	±
++	++	++		++	±	-	
+	+	+	+	++	+	±	+
-	-	-	++	±	+	++	±
±	-	-	+		++	-	-
++	++	++	++	++1	++	-	-
-	-	-	+	-	+	-	++

¹After annealing

TOP/BOTTOM THICKNESS | ≥ 0.6mm (3 layers) SHELL THICKNESS | ≥ 1.2mm (2 lines) LAYER HEIGHT | ≥ 0.2mm

For adhesion to the bed we used strapping tape of the brand Scotch Extreme. This provided the best results ** PPGF30 is an abrasive material, hardened nozzle (steel or ruby) is advised of ≥ 0.6 mm to prevent clogging of the nozzle. Infill >80% will cause high warpage



Innofil^{3D} PROFESSIONAL SERIES

PP GF30	Extremely high stiffness, high heat resistance, UV-resistance, chemical resistance		
PAHT CF	High chemical resistance, high heat resistant up to 150°C, low warping		
PET CF	Low abrasive, high dimensional stability, heat resistant up to 100°C, strong and stiff par		
ABS Fusion+	Low warp, direct printing on glass, high heat resistant, adheres to INNOSOLVE PVA		
PRO1	High Toughness, versatile, fast printing		
ASA	UV resistant, suitable for outdoor use, good anti-static properties		
HIPS	Suitable for sanding and painting, ABS support		
PP	Low density, resistant to fatigue, chemical resistant		



Professional PP GF30 (POLYPROPYLENE GLASS FIBER 30%) Series QUICK REFERENCE GUIDE

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