

ADDITIVE MANUFACTURING

ENABLING MARKETS



High temperature, autoclavable tools



Tooling, jigs, and fixtures



Functional end-use parts

LARGE FORMAT ADDITIVE MANUFACTURING

Techmer PM's 3DWorks products offer effortless solutions for Large Format Additive Manufacturing. They are designed to enable success through printability and the desired performance of the finished part or tool. We do this through thoughtful formula customization. We formulate and compound the best combination of polymer bases, mechanical fillers, environmental protection, functional and process additives for application needs.



We create custom materials for challenging 3D printing or additive manufacturing applications. Our team can rapidly customize a solution to meet your most critical challenges.



IF YOU DREAM IT, WE ENABLE IT.

GLOBALMARKETING@TECHMERPM.COM

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INDUSTRY LEADING MATERIALS SELECTION & FLEXIBILITY

- Custom solutions where a “cookie cutter” approach is not desirable.
- Add custom color or environmental protection to your print material
- Low Minimum Order Requirement to support R&D or scaling efforts.

ENABLING SUSTAINABILITY

- Help drive sustainability messaging via expertise in recycled and biobased resins and mechanical fillers.
- Focused Research & Development efforts to enhance print performance of recycled materials.

MATERIALS CHARACTERIZED IN PURDUE’S CMSC PROGRAM

- Reduced development iterations, time, and cost through simulation.
- Enable the success of your application.

PRODUCT LEADERSHIP

- Designed for optimal large-format printing
- Not simply relabeled injection grades
- Can accelerate technical success and reduce cost of a new project.



3D PRINTED GARDEN DISPLAY

*The table below only displays a portion of our custom formulations. Get in touch with us for more solutions.

	MATERIAL	ADDITIVE MANUFACTURED		INJECTION MOLDED			CF/GF	OPTIONAL		NOTE
		TENSILE STRENGTH X DIRECTION (KSI)	TENSILE STRENGTH Z DIRECTION (KSI)	TENSILE STRENGTH (KSI)	FLEXURAL MODULUS (KSI)	HDTUL@66 PSI (F)		COLOR	OUTDOOR PROTECTION	
GENERAL PURPOSE	HiFill® ABS 1511 3DP			11.1	1,100	205	GF	✓	✓	General purpose printing
	HiFill® PETG 1701 3DP			14.1	1,100	161	GF	✓	✓	General purpose printing
	HiFill® PC 1801 3DP			16.0	1,050		GF	✓	✓	General purpose printing
	Electrafil® ABS 1501 3DP	10.0	2.9	13.5	1,750	215	CF		✓	General purpose, large-part printing
	Electrafil® PC 1705 3DP	16.0	8.4	20.0	1,800	305	CF		✓	High strength, large-part printing
	Electrafil® PETG 1711 3DP			17.5	2,350	163	CF		✓	General purpose, large-part printing
	Electrafil® ABS 1708 3DP	4.0	1.0	4.2	1,000	212	CF		✓	Reduced density
ECO-FRIENDLY	Electrafil® PC 2001 ECO 3DP	10.9	3.6	21.0	1,850	303	CF		✓	99% recycled content
	HiFill® PC 1903 ECO 3DP			14.7	1,100	300	GF	✓	✓	80% recycled content
	HiFill® PLA 1816 3DP	4.1	2.4	8.1	770	135	GF		✓	100% bio-based, wood filler
	HiFill® PETG 2311 ECO 3DP						GF	✓	✓	Viscosity optimized recycled PETG
AUTOCLAVE COMPOSITE CURE TOOLING	Electrafil® PESU 1810 3DP	14.3	5.6	23.0	2,300	436	CF			Autoclave tooling up to 350° F
	Electrafil® PESU 1903 3DP	14.0	5.6	23.0	2,700	435	CF			Higher throughput
	Electrafil® PSU 1901 3DP			23.0	2,250	366	CF			Affordable high temp tooling up to 275° F
	Electrafil® PESU 1815 3DP	6.3	1.2	7.6	3,800	438	CF			High-thermal conductivity
PURGE	HiTerra™ LT PURGE 2302 3DP									
	HiTerra™ LT PURGE 2301 3DP									

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