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MakerBot Expands Composite Materials Offering with Nylon 12 Carbon Fiber

Nylon 12 Carbon Fiber can retain its mechanical properties due to low moisture absorption, enabling it to maintain consistent performance

BROOKLYN, N.Y.--(BUSINESS WIRE)-- [MakerBot](#), a global leader in 3D printing and subsidiary of Stratasys (Nasdaq: SSYS), today announces the expansion of its materials offering with Nylon 12 Carbon Fiber, adding another composite to the company's growing materials portfolio.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20201006005775/en/>



(Photo: Business Wire)

The [MakerBot® Nylon 12 Carbon Fiber](#) material can be printed on the MakerBot METHOD™ and MakerBot METHOD X™ 3D printers using the MakerBot Composite Extruder as well as on the METHOD Carbon Fiber Edition 3D printers. The Composite Extruder features hardened

metal drive gears, a metal filament switch, and an interchangeable hardened steel nozzle, which is designed to enable METHOD printers to print high-performance materials. The materials for the METHOD series are designed to enable engineers to print for a broad range of applications from prototypes to production-ready parts.

MakerBot's Nylon 12 Carbon Fiber demonstrates strong physical and thermal properties, and can be used to print metal replacement parts in some applications. It is a resilient carbon fiber-reinforced nylon optimized for high strength and stiffness.

The MakerBot® Nylon 12 Carbon Fiber utilizes a nylon 12 base polymer, and is able to absorb less moisture than nylon 6/66. As a result, it retains more of its performance in the presence of moisture. Nylon 12 carbon fiber is designed to deliver a smooth carbon fiber 3D printing experience and achieve consistent performance in any environment. For

applications that require parts to hold their form with minimal flex, such as automotive brackets or inspection gauges, nylon carbon fiber offers a tensile modulus of 6000 MPa, underscoring its high stiffness¹. The material is ideal for functional prototyping and lightweight tooling applications in aerospace, manufacturing, and automotive industries.

“Composite materials are ideal for a range of engineering applications. The MakerBot® Nylon 12 Carbon Fiber, in particular, offers manufacturers a cost-effective and lightweight alternative to metal 3D printing due to its high dimensional stability and excellent resistance to cracking under stress,” said Nadav Goshen, CEO, MakerBot. “By expanding the material options available for use with the METHOD 3D printers, we are providing more opportunities for users to explore new applications.”

The heated chamber in the METHOD line of 3D printers produces strong manufacturing-grade nylon carbon fiber parts, while its dry-sealed filament bays help to keep the materials dry, resulting in better print quality and reliability. For superior surface finish, users can print complex geometries using PVA or Stratasys® SR-30™ soluble supports. Breakaway supports are also available for faster print results.

METHOD offers a growing portfolio of materials for a variety of applications. MakerBot's materials for METHOD include Nylon 12 Carbon Fiber, PC-ABS, ABS, Nylon Carbon Fiber, PETG, ASA, and more. Users can also print with even more engineering-grade materials from leading third-party filament suppliers using the MakerBot LABS™ Experimental Extruder.

The MakerBot® Nylon 12 Carbon Fiber material is expected to begin shipping in November 2020.

For more information, visit www.makerbot.com/method.

About MakerBot

[MakerBot](http://makerbot.com), a Stratasys company, is a global leader in the 3D printing industry. The company helps create the innovators of today and the businesses and learning institutions of the future. Founded in 2009 in Brooklyn, NY, MakerBot strives to redefine the standards for 3D printing for reliability, accessibility, precision, and ease-of-use. Through this dedication, MakerBot has one of the largest install bases in the industry and also runs Thingiverse, the largest 3D printing community in the world.

We believe there's an innovator in everyone, so we make the 3D printing tools that make your ideas matter. Discover innovation with MakerBot 3D printing.

To learn more about MakerBot, visit makerbot.com, the MakerBot [blog](#), [Twitter](#), [LinkedIn](#), or [Facebook](#). Stratasys (parent company of MakerBot) reserves the right to utilize any of the foregoing social media platforms, including the company's websites, to share material, non-public information pursuant to the SEC's Regulation FD. To the extent necessary and mandated by applicable law, Stratasys will also include such information in its public disclosure filings.

MakerBot, MakerBot LABS, MakerBot METHOD, and MakerBot METHOD X are trademarks or registered marks of MakerBot Industries, LLC. All other trademarks are the property of their respective owners.

Note Regarding Forward-Looking Statement

The statements in this press release relating to Stratasys' and/or MakerBot's beliefs regarding the benefits consumers will experience from using the MakerBot's Nylon 12 Carbon Fiber, as well as the MakerBot's Nylon 12 Carbon Fiber expected time of shipping are forward-looking statements reflecting management's current expectations and beliefs. These forward-looking statements are based on current information that is, by its nature, subject to rapid and even abrupt change. Due to risks and uncertainties associated with Stratasys' business, actual results could differ materially from those projected or implied by these forward-looking statements. These risks and uncertainties include, but are not limited to: the degree of our success at introducing new or improved products and solutions that gain market share; the degree of growth of the 3D printing market generally; the duration of the global COVID-19 pandemic, which, if extensive, may continue to impact, in a material adverse manner, our operations, financial position and cash flows, and those of our customers and suppliers; the impact of potential shifts in the prices or margins of the products that we sell or services that we provide, including due to a shift towards lower-margin products or services; the impact of competition and new technologies; potential further charges against earnings that we could be required to take due to impairment of additional goodwill or other intangible assets; to the extent of our success at successfully consummating acquisitions or investments in new businesses, technologies, products or services; potential changes in our management and board of directors; global market, political and economic conditions, and in the countries in which we operate in particular (including risks related to the impact of coronavirus on our operations, supply chain, liquidity, cash flow and customer orders; costs and potential liability relating to litigation and regulatory proceedings; risks related to infringement of our intellectual property rights by others or infringement of others' intellectual property rights by us; the extent of our success at maintaining our liquidity and financing our operations and capital needs; the impact of tax regulations on our results of operations and financial condition; and other risk factors set forth under the caption "Risk Factors" in Stratasys' most recent Annual Report on Form 20-F, filed with the Securities and Exchange Commission (SEC) on February 26th, 2020. Readers are urged to carefully review and consider the various disclosures made throughout our 2019 Annual Report and the Report of Foreign Private Issuer on Form 6-K that attaches Stratasys' unaudited, condensed consolidated financial statements and its review of its results of operations and financial condition, for the quarterly period ended March 31, 2020, which we furnished to the SEC on May 14, 2020, and our other reports filed with or furnished to the SEC, which are designed to advise interested parties of the risks and factors that may affect our business, financial condition, results of operations and prospects. Any guidance provided, and other forward-looking statements made, in this press release are made as of the date hereof, and Stratasys and MakerBot undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law

¹ Specifications based on data provided by the material supplier. Actual printed part specs may vary based on part geometry and print parameters selected.

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