



News Release

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3D Systems Brings Engineering-Grade Materials to the Desktop with Nylon for CubePro

- Tough, smooth and flexible for lighter weight, higher impact parts
- Enables short-run manufacturing of durable parts for small business
- Compatible with Infinity™ Rinse-Away water-soluble support for printing complex geometries and articulated parts
- Immediately available for CubePro 3D printers

ROCK HILL, South Carolina, August 18, 2015 – [3D Systems](#) (NYSE:DDD)

announced today that it has expanded its PlasticJet Printing materials to include a new [Nylon for the company's flagship CubePro® 3D printers](#). This engineering-grade performance material was developed for [CubePro](#), bringing strength, flexibility and unparalleled durability to desktop production of functional parts for design, testing and small-scale manufacturing. Engineered with a blend that includes Nylon 6 and compatible with [Infinity™ Rinse-Away water-soluble support material](#), Nylon for CubePro saves valuable design and process time and enables 3D printing of complex, articulated and fully assembled end-use parts.

Nylon for Cube Pro is delivered in a new Smart Cartridge that is equipped with a hydroscopic seal extending the material's shelf life for up to 12 months. Nylon cartridges are priced at \$149 each, and are available immediately on [Cubify](#) and through select distributors. Combining Nylon with Infinity™ Rinse-Away support inside the CubePro's climate controlled chamber delivers the highest quality professional desktop 3D printing output every time.

Watch the [Nylon Material Testing Grounds video](#) to see the engineering-grade properties of this material put to the test.

“When prototyping my custom-built, visual effects robot I knew ABS would be strong enough for some fit testing; but when it got to doing the real work, the functional testing and ongoing use, I needed the strength and endurance that Nylon delivers,” says Luke Schantz, Technologist at SoftLayer. “I’ve used a lot of desktop 3D printers and a mix of materials on the market, but CubePro with Nylon is a product-material combination that is unmatched in performance.”

Beyond functional prototyping and test parts, Nylon’s strength and durability, combined with its smooth surface finish, allows CubePro owners to transform their desktop 3D printer into an economic tool for low volume, high value direct-manufacturing.

For example, small businesses can readily produce several hundred precision parts to satisfy their monthly sales requirements using a bank of CubePro printers as an affordable flexible-manufacturing cell.



“We are thrilled to offer this long-awaited material to our core, desktop user base, empowering engineers, small businesses and start-ups alike with the most durable and high performing material for PlasticJet Printing,” said Peter Theran, Vice President, Global Consumer Products, 3DS. “Nylon for CubePro takes desktop 3D printing where it’s never gone before: into direct-manufacturing and end-use part production.”

Nylon for CubePro:

STRENGTH + FLEXIBILITY + DURABILITY: Print stronger, flexible and long-lasting prints:

- Tensile Strength: 4,785 psi (pounds per square inch), with flexibility of a dog bone-like shape of 1/8th inch thick, 1/2 inch wide
- Elongation at break value: 22 %, meaning 1 inch can stretch to 1.22 inches

- Strength-to-weight ratio: 174 psi, for light and strong parts with honeycomb infill structure
- Tensile Modulus: 248,005 psi
- Flexural strength: 8,270 psi
- Hardness, Shore D: 75 via needle penetration, meaning Nylon is as hard as a hardhat

QUALITY: Nylon's strength and durability gives prints a smooth surface finish, ideal for parts requiring load bearing, base strength.

MATERIAL MEMORY: Tough as nails with flexibility enables Nylon prints to snap back to original form, adding both form and function to 3D prints with Nylon.

Learn more about 3DS' commitment to manufacturing the future today at www.3dsystems.com and the company's desktop consumer offerings at www.cubify.com.

About 3D Systems

3D Systems provides the most advanced and comprehensive 3D digital design and fabrication solutions available today, including 3D printers, print materials and cloud-sourced custom parts. Its powerful ecosystem transforms entire industries by empowering professionals and consumers everywhere to bring their ideas to life using its vast material selection, including plastics, metals, ceramics and edibles. 3DS' leading personalized medicine capabilities save lives and include end-to-end simulation, training and planning, and printing of surgical instruments and devices for personalized surgery and patient specific medical and dental devices. Its democratized 3D digital design, fabrication and inspection products provide seamless interoperability and incorporate the latest immersive computing technologies. 3DS' products and services disrupt traditional methods, deliver improved results and empower its customers to manufacture the future now.

Leadership Through Innovation and Technology

- 3DS invented 3D printing with its Stereolithography (SLA) printer and was the first to commercialize it in 1989.

- 3DS invented Selective Laser Sintering (SLS) printing and was the first to commercialize it in 1992.
- 3DS invented the ColorJet Printing (CJP) class of 3D printers and was the first to commercialize 3D powder-based systems in 1994.
- 3DS invented MultiJet Printing (MJP) printers and was the first to commercialize it in 1996.
- 3DS pioneered virtual surgical simulation (VSS™) and virtual surgical planning (VSP®), and its leading 3D healthcare products and services help doctors achieve better patient outcomes.

Today its comprehensive range of 3D printers is the industry's benchmark for production-grade manufacturing in aerospace, automotive, patient specific medical device and a variety of consumer, electronic and fashion accessories.

More information on the company is available at www.3dsystems.com.