HP 3D High Reusability PA 12

Strong, lowest cost,¹ quality parts

Produce strong, functional, detailed complex parts

- Robust thermoplastic produces high-density parts with balanced property profiles and strong structures.
- Provides excellent chemical resistance to oils, greases, aliphatic hydrocarbons, and alkalis.²
- Ideal for complex assemblies, housings, enclosures, and watertight applications.
- Biocompatibility certifications—meets USP Class I-VI and US FDA guidance for Intact Skin Surface Devices.³

Quality at the lowest cost per part¹

- Achieve the lowest cost per part¹ and reduce your total cost of ownership.⁴
- Minimize waste—reuse surplus powder batch after batch and get functional parts, no throwing away anymore.⁵
- Get consistent performance while achieving 80% surplus powder reusability.⁶
- Optimize cost and part quality—cost-efficient material with industry-leading surplus powder reusability.⁵

Engineered for HP Multi Jet Fusion technology

- Designed for production of functional parts across a variety of industries.
- Provides the best balance between performance and reusability.⁷
- Achieves watertight properties without any additional post-processing.
- Engineered to produce final parts and functional prototypes with fine detail and dimensional accuracy.

For more information, please visit hp.com/go/3DMaterials
4. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

5. Compared to selective laser sintering (SLS) and fused deposition modeling (FDM) technologies, HP Multi Jet Fusion technology uses less heating power than SLS systems for better material properties and material reuse rates, minimizing waste.

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7. Minimizes waste due to industry-leading reusability of powder15

8. Order the materials in kilograms.

9. Compared to selective laser sintering (SLS) technology. Tested according to ASTM D638 and MFI test.

10. The following technical information should be considered representative of averages or typical values and should not be used for specification purposes. These values refer to a balanced print made with P8 BSD.


12. Materials are classified as hazardous for EU REACH, PAHs and other purposes. This is an HP Indigo digital print.

13. Based on internal testing and public data. HP Jet Fusion 3D printing solution average printing cost per part on the HP Jet Fusion 3D 4200 Printing Solution is half the cost of comparable fused deposition modeling (FDM) and selective laser sintering (SLS) printer solutions from $100,000 USD to $300,000 USD, when averaged together and not taken individually, in market as of April 2016. Cost analysis based on: standard solution configuration price, supplies price; and maintenance costs recommended by the manufacturer. Cost criteria: printing 1–2 buckets per day/5 days per week over 1 year of 30-gram parts at 10% packing density using the powder reusability ratio recommended by the manufacturer.

14. Compared to manual print retrieval process used by other powder-based technologies. The term “cleaner” does not refer to any indoor air quality requirements and/or consider related air quality regulations or testing that may be applicable.

15. Compared to PA 12 materials available as of June, 2017. HP Jet Fusion 3D printing solutions using HP 3D High Reusability PA 12 provide 80% post-production surplus powder reusability, producing functional parts batch after batch. For testing, material is aged in real printing conditions and powder is tracked by generations (worst case for reusability). Parts are then made from each generation and tested for mechanical properties and accuracy.


17. Based on internal testing and public data. HP Jet Fusion 3D printing solution average printing cost per part on the HP Jet Fusion 3D 4200 Printing Solution is half the cost of comparable fused deposition modeling (FDM) and selective laser sintering (SLS) printer solutions from $100,000 USD to $300,000 USD, when averaged together and not taken individually, in market as of April 2016. Cost analysis based on: standard solution configuration price, supplies price; and maintenance costs recommended by the manufacturer. Cost criteria: printing 1–2 buckets per day/5 days per week over 1 year of 30-gram parts at 10% packing density using the powder reusability ratio recommended by the manufacturer.

18. Compared to selective laser sintering (SLS) technology. Tested according to ASTM D638 and MFI test.

19. Materials are the property of the customer. Testing monitored using statistical process control. Litters refers to the materials container size and not the actual materials volume. Materials are measured in kilograms.

20. To refer to the materials container size and not the actual materials volume. Materials are measured in kilograms.

21. The HP powder and agents do not meet the criteria for classification as hazardous according to Regulation (EC) 1272/2008 as amended.

22. This is an HP Indigo digital print. For more information, please visit cimquest-inc.com 866-277-8778 3D Printer Sales and Prototyping Services