

# HP Jet Fusion 4200

## 3D Printing Solution



### Quality, functional parts

- Ideal for industrial prototyping and final part production.
- Achieve predictable print time and parts with best-in-class isotropy.
- Choose between print modes tuned for mechanical/functional/aesthetic properties, accuracy, and speed.

### Optimized productivity

- Produce more parts per day with continuous printing.<sup>1</sup>
- Streamlined, cleaner experience with enclosed, automated mixing.<sup>2</sup>
- Rely on HP's world-class HP Jet Fusion 3D Solution Services to maximize uptime and productivity.

### Optimized costs

- Reduce operational costs, opening your doors to short-run production.
- Invest in a competitively priced 3D printing solution and produce at a low cost per part.
- Optimize cost and part quality, with cost-efficient materials that offer industry-leading reusability.<sup>3</sup>

For more information, please visit [hp.com/go/3DPrinter4200](https://hp.com/go/3DPrinter4200)

# HP Jet Fusion 4200 3D Printing Solution

## Produce quality parts while optimizing productivity and cost

Ideal for industrial prototyping and final part production environments



## New materials and applications— new growth opportunities

Expand into new applications and markets with a growing portfolio of HP 3D materials that enable you to produce a variety of low-cost, quality parts—and address sustainability objectives with industry-leading reusability.<sup>3</sup>



Data courtesy of HeyGears

### HP 3D High Reusability PA 12—strong, low-cost,<sup>10</sup> quality parts

Reduce total cost of ownership<sup>11</sup> and produce strong, functional, detailed complex parts with HP 3D High Reusability PA 12, a robust thermoplastic that enables industry-leading surplus powder reusability.<sup>3</sup>

Statements:<sup>9</sup> Biocompatibility, REACH, RoHS (for EU, Bosnia-Herzegovina, China, India, Japan, Jordan, Korea, Serbia, Singapore, Turkey, Ukraine, Vietnam), PAHs, Statement of Composition for Toy Applications, UL 94 and UL 746A



Data courtesy of Invent Medical



Data courtesy of Skorpion Engineering Srl



### HP 3D High Reusability PA 12 Glass Beads—stiff, dimensionally stable, quality parts

Produce stiff, functional parts—while achieving up to 70% surplus powder reusability<sup>12</sup>—with this glass bead filled thermoplastic material ideal for applications requiring high stiffness and dimensional stability like enclosures and housings, fixtures and tooling.

Statements:<sup>9</sup> REACH, RoHS (for EU, Bosnia-Herzegovina, China, India, Japan, Jordan, Korea, Serbia, Singapore, Turkey, Ukraine, Vietnam), PAHs, UL 94 and UL 746A



Data courtesy of Prometal3D



### HP 3D High Reusability PA 11—ductile,<sup>7</sup> quality parts

Produce functional parts with impact resistance and ductility.<sup>7</sup> This thermoplastic material, made from renewable sources,<sup>8</sup> provides optimal mechanical properties and consistent performance at industry-leading surplus powder reusability.<sup>3</sup>

Statements:<sup>9</sup> Biocompatibility, REACH, RoHS (for EU, Bosnia-Herzegovina, China, India, Japan, Jordan, Korea, Serbia, Singapore, Turkey, Ukraine, Vietnam), PAHs, Statement of Composition for Toy Applications



Data courtesy of Bowman - Additive Production



Data courtesy of OT4 Orthopädietechnik GmbH



### Materials Certified for HP Jet Fusion 3D Printing



**VESTOSINT® 3D Z2773 PA 12** is the first certified material for HP Jet Fusion 3D printers. This multi-purpose, affordable thermoplastic material is ideal for the production of strong parts, enabling design of lightweight structures with great color uniformity.<sup>13</sup>



Data courtesy of HP - Lubrizol

**ESTANE® 3D TPU M95** is an ideal fit for both prototyping and manufacturing scale-up applications, delivering high energy rebound, high-impact absorption, a good abrasion resistance rate and high elasticity, combined with excellent unpacking/de-powdering properties.



Tested and approved solely for compatibility with HP Jet Fusion 3D printers<sup>14</sup>

## HP 3D Printing materials portfolio selection guide<sup>15</sup>

	HP 3D HR PA 11	HP 3D HR PA 12	HP 3D HR PA 12 GB	VESTOSINT <sup>®</sup> 3D Z2773 PA 12 <sup>13</sup>	ESTANE <sup>®</sup> 3D TPU M95A
Stiffness	●	●	★	●	▲
Impact resistance	●	■	▲	●	★
Elongation	●	■	▲	●	★
Dimensional capability	●	★	●	■	■
Level of detail	★	●	●	■	■
Flat part	■	●	★	●	■
Temperature resistance	▲	■	●	■	●
Chemical resistance <sup>16</sup>	●	●	In testing	In testing	In testing
Low moisture absorption	▲	▲	▲	▲	■
Lightweight	●	●	■	●	▲

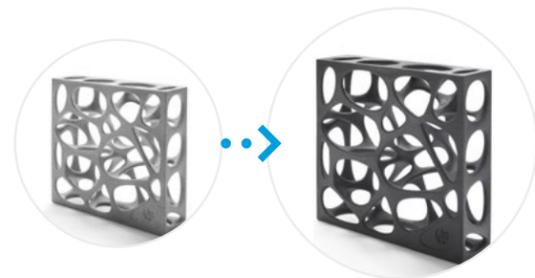
For more information, visit: [hp.com/go/3Dmaterials](http://hp.com/go/3Dmaterials)

★ Best
● Good
■ Fair
▲ Not recommended

## HP recommended post-processing solutions

### Girbau DY130 Dyeing Solution<sup>17</sup>

With 50 years of experience designing industrial equipment and in the dyeing equipment industry, Girbau offers a post-processing solution for dye finishing made for the HP Jet Fusion 4200 3D Printing Solution.<sup>17</sup>



For more information, visit: [coloringsystem.girbau.com](http://coloringsystem.girbau.com)

## Working together through your digital manufacturing journey—HP Jet Fusion 3D Solution Services

Whether you're just starting out or you're in full production, we're here to help you successfully navigate the digital manufacturing journey with a world-class service experience dedicated to making digital manufacturing—and new growth—a reality for your business.

### HP 3D Printing Prepare Services

From prepping your site to installing your equipment and printing your first parts to helping you explore the full potential of HP 3D Printing, we'll get you started on your digital manufacturing journey with **HP 3D Printing Prepare Services**.

### HP 3D Printing Care Services

Your uptime is our top priority. From preventive maintenance to proactive, big-data driven analytics, we're looking for every opportunity to help you improve the return on your investment through **HP 3D Printing Care Services**.

### HP 3D Printing Grow Services

Accelerate your transformation with **HP 3D Printing Grow Services**, designed to help you develop your digital manufacturing journey, move into new materials, applications, and use cases, and further optimize your manufacturing processes.



Learn more at [hp.com/go/3DSupport](http://hp.com/go/3DSupport)

## HP 3D Professional Services—accelerate your transformation to additive manufacturing (AM)

HP 3D Professional Services help organizations identify viable strategic opportunities, optimize design for breakthrough applications, and streamline manufacturing processes to enable mass customization and scale production.



### Adopt

Identify new opportunities and advanced design techniques enabled with HP Multi Jet Fusion technology.



### Develop

Look to improve your product positioning and market differentiation through innovation and new application development.



### Manufacture

Optimize production processes through your additive manufacturing transformation journey.

Learn more at: [hp.com/go/3DProfessionalServices](http://hp.com/go/3DProfessionalServices)

## Accelerate your move to HP 3D Printing with HP Integrated Financial Solutions

Leverage the latest technology to help accelerate your growth, profitability, and competitiveness. Partner with HP Integrated Financial Solutions to help accelerate your time to value. Enjoy the flexibility to meet both your technology and financial plans while allocating your cash to other priorities.

Financing options include a low per-month payment for the HP Jet Fusion 4200 3D Printing Solution, enabling the flexibility to:

- Avoid a large up-front payment
- Align payments with revenue by using deferred or step payment options
- Simplify your administration: bundle hardware and services into a single agreement
- Change as your requirements evolve, refresh every 3–5 years

Financing and service offerings available through Hewlett-Packard Financial Services Company and its subsidiaries and affiliates (collectively HPFSC) in certain countries and is subject to credit approval and execution of standard HPFSC documentation. Rates and terms are based on customer's credit rating, offering types, services and/or equipment type and options. Not all customers may qualify. Not all services or offers are available in all countries. Other restrictions may apply. HPFSC reserves the right to change or cancel this program at any time without notice.

Learn more at [hp.com/go/3DIntegratedFinancialSolutions](https://hp.com/go/3DIntegratedFinancialSolutions)

## HP 3D as a Service (HP 3DaaS)<sup>6</sup>— Gain new levels of cost predictability with the flexibility to scale your business as you grow

In this business climate, there are many advantages to a “pay-as-you-go” business model when the focus is on outcomes. Capital expenses are transformed into operating expenses, spread over time. Paying on a usage basis puts the focus on your business results rather than equipment or transactions.

HP Jet Fusion 3D Printing Solutions are reinventing design and manufacturing. From accelerating design cycles, to printing full-color functional parts,<sup>18</sup> to running efficient volume production with repeatable part quality.

Speed up your digital manufacturing transformation with HP 3DaaS:

- **Predictable:** usage-based price per successful build<sup>19</sup> gives you certainty around your variable costs
- **Convenient:** gain new operational efficiencies by simplifying supplies ordering and inventory management
- **Affordable:** avoid up-front investment—and help align your costs directly with your revenue by paying monthly<sup>20</sup>

HP 3DaaS Base includes:

- Automatic replenishment of HP 3D supplies
- HP 3D Printing Care Services, including remote and onsite support
- Online dashboard for easy, convenient tracking of billing and usage

Contact your local HP sales representative for more information or learn more at [hp.com/go/3DaaS](https://hp.com/go/3DaaS)



Data courtesy of Materialise

# Technical specifications

## HP Jet Fusion 4200 3D Printer

Printer performance	Technology	HP Multi Jet Fusion technology
	Effective building volume	380 x 284 x 380 mm (15 x 11.2 x 15 in)
	Building speed <sup>21</sup>	Up to 4115 cm <sup>3</sup> /hr (251 in <sup>3</sup> /hr)
	Layer thickness	0.08 mm (0.003 in)
	Job processing resolution (x, y)	600 dpi
	Print resolution (x, y)	1200 dpi
	Dimensions (w x d x h)	Printer
	Shipping	2300 x 1325 x 2068 mm (91 x 52 x 81 in)
	Operating area	3700 x 3700 x 2500 mm (146 x 146 x 99 in)
Weight	Printer	750 kg (1653 lb)
	Shipping	945 kg (2083 lb)
Network <sup>22</sup>	Gigabit Ethernet (10/100/1000Base-T), supporting the following standards: TCP/IP, DHCP (IPv4 only), TLS/SSL	
Processor and memory	Processor	Intel® Core™ i7 4770TE (2.3 GHz, up to 3.3 GHz)
	Memory	16 GB DDR3
Hard disk	2TB (AES-256 encrypted, FIPS 140, disk wipe DoD 5220M)	
Software	HP SmartStream 3D Build Manager, HP 3D Center, HP SmartStream 3D Command Center	
	Supported file formats	3MF, STL, OBJ, and VRML (v2.0)
	Certified third-party software	Autodesk® Netfabb® with HP Workspace, Materialise Build Processor for HP Multi Jet Fusion technology, Siemens NX AM for HP Multi Jet Fusion technology
Power	Consumption	9 to 11 kW (typical)
	Requirements	Input voltage three phase 380-415 V (line-to-line), 30 A max, 50/60 Hz 200-240 V (line-to-line), 48 A max, 50/60 Hz
Certifications and statement	Safety	IEC 60950-1+A1+A2 compliant; United States and Canada (UL listed); EU (LVD and MD compliant, EN 60950-1, EN 12100-1, EN 60204-1, and EN 1010)
	Electromagnetic	Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM)
	Environmental statement	REACH
Warranty & service coverage included	One-year limited hardware warranty	

## HP Jet Fusion 4200 3D Processing Station with Fast Cooling

Features	Automated mixing, sieving, and loading; semi-manual unpacking; fast cooling; external storage tank	
Dimensions (w x d x h)	Processing station with fast cooling	2990 x 934 x 2400 mm (117.7 x 36.8 x 94.5 in)
	Shipping	3499 x 1176 x 2180 mm (137.8 x 46.3 x 85.8 in)
	Operating area	3190 x 2434 x 2500 mm (125.6 x 95.8 x 99 in)
	Weight	Processing station with fast cooling
	Loaded	810 kg (1786 lb)
	Shipping	620 kg (1367 lb)
Power	Consumption	2.6 kW (typical)
	Requirements	Input voltage single phase 200-240 V (line-to-line), 19 A max, 50/60 Hz or 220-240 V (line-to-neutral), 14 A max, 50 Hz
Certifications and statement	Safety	UL 2011, UL508A, NFPA, C22.2 NO. 13-14 compliant; United States and Canada (UL listed); EU (MD compliant, EN 60204-1, EN 12100-1 and EN 1010)
	Electromagnetic	Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM)
	Environmental statement	REACH
Warranty & service coverage included	One-year limited hardware warranty	

# Ordering information

Printer	M0P44B	HP Jet Fusion 4200 3D Printer
Accessories	M0P49C	HP Jet Fusion 4200 3D Processing Station with Fast Cooling
	M0P45B	HP Jet Fusion 4200 3D Build Unit
	M0P54B	HP Jet Fusion 5200/4200 Series 3D External Tank 5-units Bundle
	M0P54D	HP Jet Fusion 4200 Series 3D External Tank Starter Kit
Recommended accessories	Girbau DY130 Dyeing Solution <sup>17</sup>	Please consult with your local HP Partner First 3D Printing Specialist
Original HP printheads	F9K08A	HP 3D600 Printhead
Original HP agents	V1Q63A	HP 3D700 5L Fusing Agent
	V1Q64A	HP 3D700 5L Detailing Agent
Other supplies	V1Q66A	HP 3D600 Cleaning Roll
Original HP 3D high reusability materials <sup>23</sup>	V1R10A	HP 3D High Reusability PA 12 30L (13 kg)
	V1R16A	HP 3D High Reusability PA 12 300L (130 kg)
	V1R12A	HP 3D High Reusability PA 11 30L (14 kg)
	V1R18A	HP 3D High Reusability PA 11 300L (140 kg)
	V1R11A	HP 3D High Reusability PA 12 Glass Beads 30L (15 kg)
	V1R22A	HP 3D High Reusability PA 12 Glass Beads 300L (150 kg)

Materials Certified for HP Jet Fusion 3D Printing <sup>14</sup>	EVNV1R14A	VESTOSINT® 3D Z2773 PA 12 30L (14 kg) <sup>13</sup>
	EVNV1R17A	VESTOSINT® 3D Z2773 PA 12 300L (140 kg) <sup>13</sup>
	3DTW0030	ESTANE® 3D TPU M95A 30L (16 kg)
	3DTW0300	ESTANE® 3D TPU M95A 300L (160 kg)
HP Jet Fusion 3D Solution Services	UB4P2E	HP Digital Manufacturing Site Readiness Assessment Tier 1 Service for HP Jet Fusion 5200/4200 Series 3D Printing Solutions
	U9Z57E	HP Ready-to-print Service for HP Jet Fusion 4200 Series 3D Printing Solutions
	U9EK7E	HP Advanced Operation Training Service (HP Training Center) for HP Jet Fusion 4200 Series 3D Printing Solutions
	UC0E9E	HP Part Quality Proficiency Training Service for HP Jet Fusion 4200 Series 3D Printing Solutions
	UB9V8E	HP 3 Year NBD* Onsite HW Support with DMR** Production Care for HP Jet Fusion 5200/4200 Series 3D Printer
	UB9X6E	HP 3 Year NBD* Onsite HW Support Production Care for HP Jet Fusion 5200/4200 Series 3D Build Unit
	UB7R3E	HP 3 Year NBD* Onsite HW Support Foundation and Production Care for HP Jet Fusion 5200/4200 Series 3D Processing Station
*Next Business Day	UB4R1E	HP Customer Self-Repair Uptime Kit Service for HP Jet Fusion 4200 Series 3D Printing Solutions
**Defective Media Retention		

## Eco Highlights



- Cleaner, more comfortable experience—enclosed printing system, and automatic powder management<sup>2</sup>
- Minimizes waste due to industry-leading reusability of powder<sup>3</sup>
- Take-back program for eligible supplies available in select countries<sup>24</sup>

Please recycle printing hardware and eligible printing supplies.

Find out how at our website: [hp.com/ecosolutions](http://hp.com/ecosolutions)



Cofinanced Project by Minetur -SETS  
TSI-100802-2014-1

Dynamic security enabled printer. Only intended to be used with cartridges using an HP original chip. Cartridges using a non-HP chip may not work, and those that work today may not work in the future. More at: [hp.com/go/learnaboutequipment](http://hp.com/go/learnaboutequipment).

Learn more about HP Multi Jet Fusion technology at:  
[hp.com/go/3DPrint](http://hp.com/go/3DPrint)

Connect with an HP 3D Printing expert or sign up for the latest news about HP Jet Fusion 3D Printing:  
[hp.com/go/3Dcontactus](http://hp.com/go/3Dcontactus)

For more information, please visit:  
[hp.com/go/3DPrinter4200](http://hp.com/go/3DPrinter4200)

1. Continuous printing requires an additional HP Jet Fusion 3D build unit (standard printer configuration includes one HP Jet Fusion 3D build unit).
2. 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.
3. Industry-leading surplus powder reusability based on using HP 3D High Reusability PA 11 and PA 12 at recommended packing densities and compared to selective laser sintering (SLS) technology, offers excellent reusability without sacrificing mechanical performance. Tested according to ASTM D638, ASTM D256, ASTM D790, and ASTM D648 and using a 3D scanner. Testing monitored using statistical process controls.
4. For advanced data features, charges may apply in the future.
5. Available in most countries, subject to Terms & Conditions of HP Limited Warranty and/or Service Agreement. Please consult your local sales representative.
6. HP 3DaaS Base is currently available in the US, Canada, Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and UK. Includes support and maintenance services, supplies and long-term consumables.
7. Testing according to ASTM D638, ASTM D256, and ASTM D648 using HDT at different loads with a 3D scanner for dimensional accuracy. Testing monitored using statistical process controls.
8. HP 3D High Reusability PA 11 powder is made with 100% renewable carbon content derived from castor plants grown without GMOs in arid areas that do not compete with food crops. HP 3D High Reusability PA 11 is made using renewable sources, and may be made together with certain non-renewable sources. A renewable resource is a natural organic resource that can be renewed at the same speed in which it is consumed. Renewable stands for the number of carbon atoms in the chain coming from renewable sources (in this case, castor seeds) according to ASTM D6866.
9. For more information, see [hp.com/go/statementsPA11](http://hp.com/go/statementsPA11), [hp.com/go/statementsPA12](http://hp.com/go/statementsPA12), and [hp.com/go/statementsPA12GB](http://hp.com/go/statementsPA12GB).
10. Based on internal testing and public data for solutions on market as of April, 2016. Cost analysis based on: standard solution configuration price, supplies price, and maintenance costs recommended by manufacturer. Cost criteria: printing 1.4 full build chambers of parts per day/5 days per week over 1 year of 30 cm<sup>2</sup> parts at 10% packing density on Fast print mode using HP 3D High Reusability PA 12 material, and the powder reusability ratio recommended by manufacturer, and printing under certain build conditions and part geometries.
11. Compared to selective laser sintering (SLS) and fused deposition modeling (FDM) technologies, HP Multi Jet Fusion technology can reduce the overall energy requirements needed to attain full fusing and reduce the system requirements for large, vacuum-sealed ovens. In addition, HP Multi Jet Fusion technology uses less heating power than SLS systems for better material properties and material reuse rates, minimizing waste.
12. HP Jet Fusion 3D Printing Solutions using HP 3D High Reusability PA 12 Glass Beads provide up to 70% powder reusability ratio, 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.
13. The only terms and conditions governing the sale of HP 3D printer solutions are those set forth in a written sales agreement. The only warranties for HP products and services are set forth in the express warranty statements for such products and services. Nothing herein should be construed as constituting an additional warranty or additional binding terms and conditions. HP shall not be liable for technical or editorial errors or omissions contained herein and the information herein is subject to change without notice. The Materials Certified for HP Jet Fusion 3D Printing have not been designed, manufactured, or tested by HP for compliance with legal requirements and recipients are responsible for making their own determination as to the suitability of VESTOSINT® 3D Z2773 for their purposes, including but not limited as regards direct or indirect food contact applications.
14. Nothing herein should be construed as constituting an additional HP warranty. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services and/or in a written agreement between you and HP for such HP products and services. HP believes that the information herein is correct based on the current state of scientific knowledge and as the date of its publication, however, to the maximum extent permitted by law HP EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF HP IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION PROVIDED. Except to the extent that exclusion is prevented by law, HP shall not be liable for technical or editorial errors or omissions contained herein and the information herein is subject to change without notice. HP shall not be liable for damages or losses of any kind or nature that result from the use of or reliance upon this information. The HP Jet Fusion 3D Materials have not been designed, manufactured or tested by HP for compliance with legal requirements for 3D printed parts and their uses and recipients are responsible for making their own determination as to the suitability of HP Jet Fusion 3D Materials for their purposes and uses, ensure compliance with applicable laws and regulations, and be aware that other safety or performance considerations may arise when using, handling or storing the product.
15. Based on internal HP testing, March 2020. For testing methodology and results, see [hp.com/go/3Dprintingmaterialswhitepapers](http://hp.com/go/3Dprintingmaterialswhitepapers). Please consult your local sales representative for more information.
16. For HP 3D High Reusability PA 11 and PA 12, based on internal HP testing, June 2017. Tested with diluted alkalis, concentrated alkalis, chlorine salts, alcohol, ester, ethers, ketones, aliphatic hydrocarbons, unleaded petrol, motor oil, aromatic hydrocarbons, toluene, and DOT 3 brake fluid.
17. This product is only available in Europe and in the Americas. HP does not design, manufacture or sell the Girbau product or provide any warranty for the Girbau products. HP believes that the information herein is correct based on the current state of scientific knowledge and as the date of its publication, however, to the maximum extent permitted by law HP EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF HP IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION PROVIDED. Except to the extent that exclusion is prevented by law, HP shall not be liable for technical or editorial errors or omissions, and damages or losses of any kind or nature that result from the use of or reliance upon this information, which is subject to change without notice. Recipients of the Girbau product are responsible for determining the suitability of Girbau products with HP Jet Fusion 3D products, ensuring compliance with applicable laws and regulations, and being aware that other safety or performance considerations may arise when using, handling or storing the product.
18. Full-color parts applicable only with HP Jet Fusion color 3D printers.
19. A successful build is a printed job that ends with the exit code "job\_completed\_successfully."
20. HP 3DaaS Base defined usage-based price applies for a one-year term.
21. Based on 0.08-mm (0.003-in) layer thickness and 7.55 sec/layer.
22. The HP Jet Fusion 3D Printing Solution should be connected to the HP Cloud in order to enable the correct functioning of the printer and to offer better support.
23. Liters refers to the materials container size and not the actual materials volume. Materials are measured in kilograms.
24. Printing supplies eligible for recycling vary by supply and by printer. Visit [hp.com/recycle](http://hp.com/recycle) to see how to participate and for HP Planet Partners program availability; program may not be available in your area. Where this program is not available, and for other consumables not included in the program, consult your local waste authorities on appropriate disposal.

