









# HP 3D Printing materials compatibility chart



Material	HP Jet Fusion 3D Printing Solutions and Printers					HP Jet Fusion 3D Components and Accessories		
	 HP Jet Fusion 5600 Series 3D Printing Solution	 HP Jet Fusion 5400W Series 3D Printing Solution	 HP Jet Fusion 5200 Series 3D Printing Solution	 HP Jet Fusion 5000 3D Printer <sup>1</sup>	 HP Jet Fusion 4200 Series 3D Printing Solution	 HP Jet Fusion 5200 Series 3D Automatic Unpacking Station	 HP Jet Fusion 3D Powder Handling Automation Solution	 HP Jet Fusion 3D Automation Accessory
HP 3D High Reusability <sup>2</sup> PA 11	✗	✗	✓	✓	✓	✓	✗	✓
HP 3D High Reusability PA 12 S, enabled by Arkema <sup>3</sup>	✓	✗	✓	✓	✗	✓	✗	✓
HP 3D High Reusability <sup>4</sup> PA 12, enabled by Evonik	✓	✗	✓	✓	✓	✓	✓	✓
HP 3D High Reusability <sup>5</sup> PA12 FR, enabled by Evonik.	✓	✗	✗	✗	✗	✗	✗	✗
HP 3D High Reusability <sup>6</sup> PA 12 W	✓	✓	✗	✗	✗	✓	✗	✓
HP 3D High Reusability <sup>7</sup> PP enabled by Forward AM	✗	✗	✓	✓	✗	✓	✗	✓
HP 3D High Reusability <sup>8</sup> PA 12 Glass Beads	✗	✗	✓	✓	✓	✓	✗	✓
HP 3D High Reusability <sup>9</sup> TPA enabled by Evonik	✗	✗	✗	✗	✓	✗	✗	✗
Forward AM Ultrasint <sup>®</sup> TPU01 <sup>10</sup>	✓	✗	✓	✓	✗	✗	✗	✗
ESTANE <sup>®</sup> 3D TPU M95A <sup>11</sup>	✗	✗	✗	✗	✓	✗	✗	✗
Estane <sup>®</sup> 3D TPU M88A <sup>12</sup>	✗	✗	✓	✓	✗	✗	✗	✗

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

- Available through HP 3DaaS.
- HP Jet Fusion 3D Printing Solutions using HP 3D High Reusability PA 11 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.
- HP Jet Fusion 3D Printing Solutions using HP 3D High Reusability PA 12 S, enabled by Arkema, provide up to 90% 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.
- HP Jet Fusion 3D Printing Solutions using HP 3D High Reusability PA 12, enabled by Evonik, provide up to 80% 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.
- HP Jet Fusion 3D Printing Solutions using HP 3D High Reusability PA12 FR, enabled by Evonik, provide 50% 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.
- HP Jet Fusion 3D Printing Solutions using HP 3D High Reusability PA 12 W provide up to 75% 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.
- Based on internal HP testing, May 2020. HP Jet Fusion 3D Printing Solutions using HP 3D High Reusability PP enabled by Forward AM provide up to 90% powder reusability ratio, producing functional parts batch after batch. For testing, material is aged in real printing conditions and reclaimed powder is tracked by generations (worst case for reusability). Parts are then made from each subsequent generation and tested for mechanical properties and accuracy showing no degradation of properties up to three generations of use.
- 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.
- HP Jet Fusion 3D Printing Solutions using HP 3D High Reusability TPA enabled by Evonik provide up to 80% 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.
- The HP Jet Fusion 5600 Series 3D Printing Solution, using Forward AM Ultrasint<sup>®</sup> TPU01, offers a powder reusability ratio of up to 90%, while the HP Jet Fusion 5200 Series 3D Printing Solution, also using BASF Ultrasint<sup>®</sup> TPU01, provides a powder reusability ratio of up to 80%. These reusability ratios are recommended by BASF.
- HP Jet Fusion 3D Printing Solutions using ESTANE<sup>®</sup> 3D TPU M95A provides up to 80% powder reusability ratio. Reusability ratio recommended by Lubrizol.
- HP Jet Fusion 3D Printing Solutions using ESTANE<sup>®</sup> 3D TPU M88A provides up to 80% powder reusability ratio. Standard refresh rate suggested by Lubrizol, as the powder blend is reclaimed for more printing cycles, the yellowness of the powder blend increases.