



Polyurethane family

Material selection

Polyurethane-based materials for the HP Jet Fusion 4200 3D Printing Solution and the HP Jet Fusion 5200 Series 3D Printing Solution

Polyurethane-based materials for the HP Jet Fusion 4200 3D Printing Solution and the HP Jet Fusion 5200 Series 3D Printing Solution include ESTANE® 3D TPU M95A¹ and BASF Ultrasint® TPU01.²

ESTANE® 3D TPU M95A: Ideal for applications requiring high rebound and good abrasion resistance

- ESTANE® 3D TPU M95A is a thermoplastic polyurethane (TPU) powder developed by Lubrizol specifically for use in HP's Jet Fusion 4200 3D Printing Solution.
- ESTANE® 3D TPU M95A allows parts to be produced for a wide variety of applications that require high elasticity, good abrasion resistance, and high-impact absorption.



Figure 1: ESTANE® 3D TPU M95A part.
Data courtesy of HP - Lubrizol

The mechanical properties of ESTANE® 3D TPU M95A in the HP Jet Fusion 4200 3D Printing Solution have been characterized in the [ESTANE® 3D TPU M95A for the HP Jet Fusion 4200 3D Printing Solution - Mechanical Properties](#) white paper.

BASF Ultrasint® TPU01: Ideal for producing flexible, functional parts

- BASF Ultrasint® TPU01 is a multi-purpose thermoplastic polyurethane (TPU) powder, developed by BASF specifically for use in HP's Jet Fusion 5200 Series 3D Printing Solution.
- Parts produced with this material offer a balanced property profile with good flexibility, shock absorption, and the possibility to print very fine structures with a high level of detail.
- BASF Ultrasint® TPU01 is an easy-to-print material with good UV and hydrolysis resistance.
- BASF Ultrasint® TPU01 is only processable in HP Jet Fusion 3D printers.



Figure 2: BASF Ultrasint® TPU01 part.
Data courtesy of HP - BASF

The mechanical properties of BASF Ultrasint® TPU01 in the HP Jet Fusion 5200 Series 3D Printing Solution have been characterized in the [BASF Ultrasint® TPU01 for the HP Jet Fusion 5200 Series 3D Printing Solution - Mechanical Properties](#) white paper.

For more information please visit:
hp.com/go/3Dmaterials

1. Available for the HP Jet Fusion 4200 3D Printing Solution.
2. Available for the HP Jet Fusion 5200 Series 3D Printing Solution.

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