

## Preliminary technical specifications for beta testing or review purposes

### Ultrasint™ TPU01 for HP Jet Fusion Printers

#### Components

Thermoplastic polyurethane powder for HP Jet Fusion Printers

#### Product Description

Ultrasint™ TPU01 is a multi-purpose material for application in Multi Jet Fusion. Parts produced with this material offer a balanced property profile with good flexibility and shock absorption and excellent part accuracy. Ultrasint™ TPU01 is only processable in HP Multi Jet Fusion printers.

#### Delivery form and warehousing

Ultrasint™ TPU01 powder should be stored at 15 - 25°C in its originally sealed package in a clean and dry environment.

#### Product safety

Mandatory and recommended industrial hygiene procedures and the relevant industrial safety precautions must be followed whenever this product is being handled and processed. For additional information please consult the corresponding material safety data sheets.

#### For your information

Ultrasint™ TPU01 comes in white color. Chemical properties (e.g. resistance against particular substances) and tolerance for solvents are available upon request. Generally, these properties correspond to publicly available data on polyurethanes.

#### Notice

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

The safety data given in this publication is for information purposes only and does not constitute a legally binding Material Safety Data Sheet (MSDS). The relevant MSDS can be obtained upon request from your supplier or you may contact BASF directly at [sales@basf-3dps.com](mailto:sales@basf-3dps.com).

# Technical Data Sheet

Ultrasint™ TPU01



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Mechanical Properties	Test method	Typical values xy-direction	Typical values z-direction
Hardness Shore A	DIN ISO 7619-1	88 - 90	88 - 90
Tensile Strength / MPa	ASTM D412	8 - 8.5	5 - 6.5
Tensile Elongation at break / %		260 - 330	50 - 100
Tear resistance / kN/m	ASTM D624	36 - 50	
Rebound resilience / %	ASTM D2632	62 - 63	
Compression set (23°C, 24h) / %	ASTM D395	28 - 32	
Abrasion loss / mm <sup>3</sup>	ASTM D5963	190 - 240	150 - 170

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