



A brand of BASF - We create chemistry

# Ultrasint® PP for MJF

Excellent chemical  
resistance and  
low moisture  
absorption

Industrial-grade PP (polypropylene) is highly used in industrial manufacturing due to its good mechanical properties. Using this material for additive manufacturing allows to create advanced 3D printed prototypes with the same mechanical properties as injection molding. PP offers great chemical resistance, high elongation at break, but also durability and low moisture absorption.

## Benefits at a Glance

- Excellent chemical resistance
- High ductility
- High rigidity
- Color: Dark Grey

## Mechanical Properties

Tensile Modulus	1600 MPa
Tensile strength	30 MPa
Elongation at break	20 %
Heat deflection temperature	100 °C
Elongation at yield	10 %
Impact strength	3.5 KJ/m <sup>2</sup>

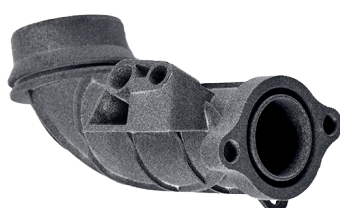
## Applications

PP 3D printing material using Multi Jet Fusion technology is ideal for the automotive or consumer goods sectors. This industrial grade material is perfect to manufacture automotive parts, but also to create reservoirs thanks to its chemical resistance properties.



### Reservoirs and manifolds

PP 3D printing material is well-suited to create reservoirs for all kinds of chemicals. Using additive manufacturing to create reservoirs or packagings will allow to produce parts with intricate shapes, perfectly adapted to the whole design of your devices.



### Automotive

The formula of this PP powder developed by HP and BASF offers a great chemical resistance, a high elongation at break, but also durability and a low moisture absorption, and is more durable. PP is perfect for automotive/transportation industries parts.



### Other industrial uses

With its excellent chemical resistance and low moisture absorption, PP is ideal for a wide range of industrial uses. It has outstanding welding capabilities with other PP parts produced with traditional methods like injection molding. This PP complies with REACH and RoHS health and safety standards.