FORWARD AM
Innovating Additive Manufacturing

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Ultrasint® PA6 LM

Special PA6 Powder for High Processability on any PBF Equipment

Ultrasint® PA6 LM is a special powder material designed to maximize production accessibility to any PBF user. Thanks to its lower melting temperature compared to the other members of the Ultrasint® PA6 family, it enables lower processing temperatures which any PBF equipment can achieve. Its balanced property profile combines superior mechanical performance with outstanding thermal resistance. This advanced material can replace injection molded PA6 parts without compromise.

Benefits at a Glance

- Easy processing on standard PBF equipment
- Processing temperature ~180 °C
- Exceptionally high impact strength
- In-particle filler technology
- Color: Black

Example Applications

- Functional prototypes for different industries, i.e. automotive
- High performance spare parts
- Multi-purpose industrial goods
- Durable and rigid jigs and fixtures

Main Properties

Tensile Strength	**44 MPa**
Young's Modulus	**1500 MPa**
Elongation at Break	**17 %**
Charpy Impact unnotched	**52 kJ/m²**
HDT B (0.45 MPa, dry)	**183 °C**

Key Features

Ultrasint® PA6 LM enables real-world injection molding PA6 performance and is easily processable on any PBF equipment.

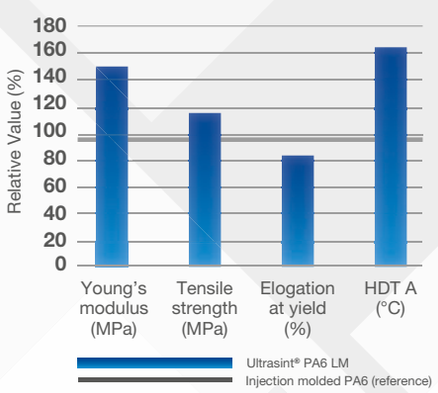
Easy Processing

- Low processing temperature of approx. 180 °C
- Easy to use on any PBF equipment

Benchmark with injection molded PA6

- Ultrasint® PA6 LM exhibits enhanced mechanical performance
- Rapid substitution of injection molded PA6 parts

Benchmark with Injection Molded PA6



Application Examples

The high versatility of Ultrasint® PA6 LM enables a wide range of applications from prototyping to industrial serial production parts.

Functional Prototyping

Spare Parts

Serial Parts

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