



Ultrasint[®] PA11 GB30

Bio-derived, Glass-bead Filled PA11 Powder for Rigid Parts with Enhanced Thermal and Abrasion Resistance

Ultrasint[®] PA11 GB30 is a bio-derived, glass-bead filled powder material ideally suited for all applications requiring thermal stability, rigidity and precise feature control of production components. It offers a balanced property profile that comprises rigidity, toughness and easy processability on any PBF machine with high dimensional accuracy. Ultrasint[®] PA11 GB30 is especially suited to manufacturing robust jigs and fixtures, rigid housings and all parts subject to abrasion and wear.

Benefits at a Glance

- Easy processing on any PBF equipment
- Filled with glass beads for enhanced rigidity, Heat Deflection Temperature and dimensional stability
- High abrasion resistance
- Color: Natural

Example Applications

BASF

We create chemistry

- Housings and covers
- Thermally loaded parts, i.e. close to the engine compartment
- Splinter-proof jigs and fixtures
- Durable gears and bearings

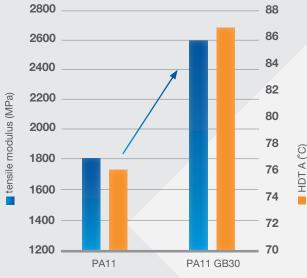
Material Properties

Tensile strength	47 MPa
Young's modulus	2600 MPa
Elongation at break	7 %
Charpy impact unnotched	40 kJ/m ²
HDT B (0.45 MPa, dry)	176 °C

Key Features

Ultrasint® PA11 GB30 offers exceptional rigidity and thermal distortion resistance for demanding applications.

Increased rigidity and thermal distortion performance through glass filling



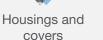
 Significantly increased modulus compared to unfilled PA11 ensures highest dimensional stability

 Higher thermal distortion temperature enables new applications in hot environments

Application Examples

Ultrasint[®] PA11 GB30 is ideally suited to manufacturing rigid housings and covers, individualized gears, as well as robust jigs and fixtures.







Gears and

bearings



Jigs, fixtures and tooling

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