

VERSATILITY IN MATERIAL AND APPLICATION

BASF's Ultramid® grades are molding compounds on the basis of PA6, PA66 and various co-polyamides such as PA66/6. The range also includes PA610 and semi-aromatic polyamides such as PA6T/6, PA6T/66, PA6T/6I and PA9T.

ULTRAMID® IS KNOWN FOR ITS HIGH MECHANICAL STRENGTH, STIFFNESS AND THERMAL STABILITY. IN ADDITION, ULTRAMID® OFFERS GOOD FIRMNESS AT LOW TEMPERATURES, FAVORABLE SLIDING FRICTION BEHAVIOR AND CAN BE PROCESSED WITHOUT ANY PROBLEMS.

CHARACTERISTICS

Ultramid® can be processed by a variety of methods including extrusion and injection molding. Characteristics and properties found across Ultramid® product lines include:

- High strength and rigidity
- Outstanding resistance to chemicals
- Very good impact strength
- Dimensional stability
- Simple processing
- Low tendency to creep

Ultramid® is the trade name for polyamides supplied by BASF for injection molding and extrusion. The product range includes PA6 grades (Ultramid® B), PA66 grades (Ultramid® A), special polyamides like PA6T/6 (Ultramid® T) and PA610 (Ultramid® S Balance) as well as special grades based on copolyamides.

Applications

Because of the manifold and tailor-made characteristics of Ultramid® many applications are possible, especially in automotive construction, electrical engineering and electronics, in household technology, industrial connection, photovoltaics, in construction and installation, furniture, the sanitary industry and in mechanical engineering. Additional product ranges are listed on the reverse side.



ULTRAMID® PRODUCT RANGE

The Ultramid® range comprises the following groups of products:

Ultramid® A

In its unreinforced state, it is an extremely rigid, abrasion-resistant, heat-resistant and hard material. It is one of the preferred materials for parts subject to mechanical and thermal stresses in electrical, mechanical and automotive engineering.

Ultramid® D

Are blends of PA6 and PA66 and other polyamides with customized properties, available as unreinforced grades (e.g. Ultramid® Deep Gloss D3K) and reinforced grades (e.g. Ultramid® Endure D3G10 BK20560).

Glass-fiber reinforced Ultramid®

These materials are distinguished by high mechanical strength, hardness, rigidity, thermostability and resistance to hot lubricants and hot water. Parts made from them show dimensional stability and high creep strength. Glass-fiber reinforced Ultramid® T also has extraordinarily high heat resistance (up to 280°C).

Ultramid® Advanced N

Is characterized by very low water absorption, excellent chemical resistance and good mechanical properties at high temperatures in conditioned state.

Ultramid® B

In its unreinforced state, it is a tough, hard material affording parts with good damping characteristics and high shock resistance even in dry state and at low temperatures. It is particularly tough and easy to process. Translucent products are also available under the name Ultramid® Vision.

Ultramid® S Balance

Is particularly resistant to chemicals and is also known for its low moisture absorption. Ultramid® S Balance is preferably used in components that come into contact with media.

Reinforced and unreinforced grades with flame retardants

The modified Ultramid® grades C3U, A3X2G5, A3X2G7, A3X2G10, B3U50G6, A3U42G6, A3XZC3, B3UG4, B3U30G6 and T KR 4365 G5 are particularly suitable for electrical components with high flame retardance and high tracking resistance.

Ultramid® Advanced T1000

Has a very high, constant stiffness and strength over a temperature range of -40°C to over 80°C. It is resistant to high temperatures and against aggressive media.

Ultramid® C

Is the name given to copolyamides made from PA6 or PA66 monomers that exhibit different melting points or a lower crystallinity according to their composition.

Ultramid® T

Has a semi-aromatic structure and is a highly rigid material with a high melting point, known for its dimensional stability, high chemical resistance and constant mechanical properties covering a wide range of different applications.

Mineral- and glass bead-filled Ultramid®

Materials filled with minerals and glass beads show increased rigidity, good dimensional stability, low tendency to warp, optically appealing surfaces, partly excellent ability for metallizing and good flow characteristics.

Ultramid® Advanced T2000

Is a polyphthalamide providing good E&E performance with a high melting point, low water absorption, good mechanical properties at high temperatures and good chemical resistance.

[Learn more at nexeoplastics.com/basf/ultramid](https://nexeoplastics.com/basf/ultramid) or contact us to request a free sample.

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