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Ultramid®- Custom-made polyamide

Ultramid® is BASF's trade name for its line of polyamide (PA) products. BASF started manufacturing Ultramid® polyamides over 50 years ago. Today, BASF is one of the world's largest producers of polyamides. 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. Ultramid® A is produced by condensation polymerization of hexamethylene diamine and adipic acid, Ultramid® B by hydrolytic polymerization of caprolactam. These materials are obtained from petrochemical feedstocks such as benzene, cyclohexane and p-xylene.

Further information on our Website

[Ultramid \(Asia\)](#)
[Ultramid \(Europe\)](#)
[Ultramid \(North America\)](#)

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Why is Ultramid® always the perfect polyamide?

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 partially aromatic polyamides such as PA6T / 6. The molding compounds are available unreinforced, reinforced with glass fibers or minerals and also reinforced with long-glass fibers for special applications. Ultramid® is noted for its high mechanical strength, stiffness and thermal stability. In addition, Ultramid® offers good toughness at low temperatures, favorable sliding friction behavior and can be processed without any problems. Owing to its excellent properties, this material has become indispensable in almost all sectors of engineering for a wide range of different components and machine elements, as a high-grade electrical insulation material and for many special applications. The Ultramid® extrusion grades, available in a wide variety of viscosities and additive packages, are used in nearly all fields of packaging. Due to their outstanding properties, they have become indispensable to many applications. Ultramid® can also be used for the production of stretched monofilaments such as industrial wires, fishing lines, tennis racket strings, weed trimmer lines and bristles.

Properties of Ultramid®:

Ultramid® stands out for its high mechanical strength, stiffness and thermal resistance. Moreover, this polyamide exhibits good toughness at low temperatures, favorable sliding friction behavior and problem-free processing. The most important characteristics of Ultramid® are:

- High strength and rigidity
- Very good impact strength
- Good elastic properties
- Outstanding resistance to chemicals
- Dimensional stability
- Low tendency to creep
- Exceptional sliding friction properties
- Simple processing






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