

ULTRASON®

nexeo
plastics

BASF
We create chemistry

THE SPECIALTY PLASTIC FOR HIGH-QUALITY PARTS

Ultrason® is especially designed for applications that require high heat resistance as it always keeps stiffness and dimensional stability even when used at very high temperatures. Its extraordinary property profile allows all Ultrason® grades to be molded into high-quality, highly stressed parts for high-performance applications in a lot of industries.

BASF'S ULTRASON® CAN BE SUCCESSFULLY USED FOR APPLICATIONS IN WHICH OTHER PLASTICS, E. G. POLYAMIDE, POLYCARBONATE, POLYOXYMETHYLENE AND POLYALKYLENE TEREPHTHALATES, FAIL TO MEET THE REQUIREMENTS. BECAUSE OF ITS EXTRAORDINARY VERSATILITY, ULTRASON® RESINS CAN SUBSTITUTE THERMOSETS, METALS AND CERAMICS IN A LOT OF INDUSTRIES.

CHARACTERISTICS

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- Temperature-independent properties
- Very high long-term service temperatures
- Good dimensional stability
- Excellent stiffness
- Very good mechanical strength
- High transparency: honey-colored tint
- Good electrical insulation properties
- Favorable dielectric properties
- Very good fire behavior
- Excellent hydrolysis and chemical resistance

Automotive

When it comes to the development of challenging components and materials for the automotive market, BASF has been a globally reliable and accepted partner for the automotive industry for decades. Ultrason® has long been successfully used in numerous applications in the automotive industry.

Applications include:

- Interior reflector
- Headlamp housing
- Fuse encapsulation
- Oil pump with oil control piston
- Headlight bezel
- Seals
- Pump components
- Coverings
- Casings



Electrical Engineering and Electronics

Ultrason® is especially suitable for highly stressed parts that must show remarkable dimensional stability and good mechanical properties over a temperature range from -50 °C to +160 °C (Ultrason® S) or +180 °C (Ultrason® E and Ultrason® P), and that additionally require properties such as: good electrical insulation, high resistance to thermal aging, excellent fire behavior, and good resistance to chemicals and hydrolysis.

Applications include:

- Coil formers
- Printed circuit boards
- Circuit breaker components
- Heat shields
- Sensors
- Battery seals



Food and Household

Ultrason® demonstrates advantages in the food and household industry by providing design flexibility, low-weight parts, fracture resistance, reusability, and recyclability. These benefits explain why Ultrason® is used to an increasing extent in applications that involve the preparation and reheating of hot meals.

Applications include:

- Non-stick coated pan
- Microwave-safe dishes
- Airplane dishes
- Fittings
- Bottles
- Milk machines



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

Nexeo Plastics
1780 Hughes Landing Blvd
Suite 1000
The Woodlands, TX 77380 USA
nexeoplastics.com

To Place Your Order:
US & Canada: 833.446.3936
getplastics@nexeoplastics.com
Mexico: +52 55 4749 1710
ventas@nexeoplastics.com

For Technical Questions:
US & Canada: 866.430.9666
Mexico: +52 81 1182 5109
techconnect@nexeoplastics.com



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