

## Altuglas International at a glimpse

Altuglas International is the PMMA (Polymethylmethacrylate) Business Unit of Arkema, a chemical group created in October 2004 following the reorganisation of Total's Chemicals Branch.

Altuglas International has become the world's PMMA leader, supplying 20 % of global demand. Altuglas International produces acrylic resin and sheet, capstocks, and polycarbonate sheet.

Worldwide employees: 1,300 people

Turnover: 478 million euros (2004)

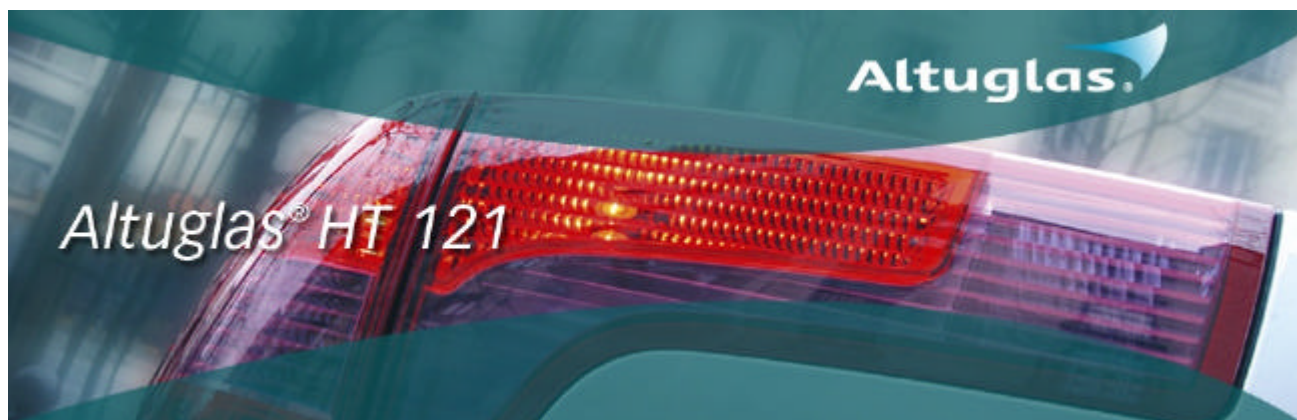
Altuglas International operates 9 industrial facilities, together with research and development centres and sales offices around the world.

Altuglas International's two main trademarks for acrylic resin and sheet are:

- Altuglas<sup>®</sup> in Europe, Asia-Pacific, Africa and the Middle East,
  - Plexiglas<sup>®</sup> in North America and Latin America,
- while Tuffak<sup>®</sup> is the worldwide trademark for polycarbonate.

*The Altuglas<sup>®</sup>, Plexiglas<sup>®</sup> and Tuffak<sup>®</sup> trademarks belong to Arkema.*

[www.altuglasint.com](http://www.altuglasint.com)



## Altuglas® HT 121 is an acrylic resin that is highly attractive to automobile designers.

### Greater intensity, with smaller size, is the new challenge in lighting.

All automobile designers face the twin challenge of ;

- increased power for rear lamps: high-intensity, incandescent bulbs, halogen lamps and light-emitting diodes
- ever greater demand for compactness.

Together, these two requirements result in elevated temperatures within a confined space. Hence the importance of choosing a material with high thermal resistance.

**Altuglas® HT121**, developed by Altuglas International, is the answer to all these constraints and in addition provides undeniable advantages in terms of light output and appearance.

#### Resistant to all attacks

Withstanding continuous temperatures of up to 100°C and with a Vicat\* point of 121°C, **Altuglas® HT121** is also resistant to impact (up to 10 times better than glass of comparable thickness) and damage from UV and weathering.

For rear dusters, as well as external trim and spoilers, **Altuglas® HT121** also offers a scratch resistance that is unmatched by other plastics. It is a really exceptional PMMA.

**Altuglas® HT121** is available in a range of colors, providing complete freedom to designers and manufacturers.

**Altuglas® HT121** will accept all finishes while needing no surface protection, a considerable manufacturing advantage.

Because of its remarkable properties, this acrylic resin is also used in applications such as motorcycle headlamps, car badges, signs, lighting in public areas, cell-phone screens, etc.

\*Vicat point: softening temperature

Altuglas® is a registered trademark belonging to Arkema



## **Altuglas® frosted: A great choice of naturally opalescent looks, for an exclusive finish, whatever**

Altuglas international, a business unit of Arkema, has further enriched its **Altuglas® Frosted** range: colours, looks, thicknesses

**Altuglas® Frosted** acrylic resins are the simplest, most elegant material to obtain attractive and luminous surfaces.

Its opaline look gives a unique impression of softness and sophistication. Its smooth, when moulded, or fine-grained, when extruded or co-extruded, surface adds a feel of trendy coolness.

**Altuglas® Frosted** resins offer excellent scratch and fingerprint resistance. Its surface remains attractive with minimum cleaning.

**Altuglas® Frosted** resins show incomparable optical properties coupling high luminous transmission with excellent hiding power.

**Altuglas® Frosted** based on standard, high fluid or impact resins enables fabrication of numerous objects, in various shapes and thicknesses. It needs no additional finishing process, thus increasing industrial productivity.

Its more spectacular applications are in lighting products and fixtures, home accessories, automotive and capstock. It opens a world of possibilities for surprising, yet refined designs.

**Altuglas® Frosted** thus completes a wide range of **Altuglas®** resins to reach a new vision of light.

[www.altuglasint.com](http://www.altuglasint.com)

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## Altuglas® resins, a base for Innovation



Altuglas® HT121



Altuglas® Frosted



Altuglas® Granite



Solarkote®

Altuglas® resins give life to all your ideas by stimulating creativity. These resins have been developed by Altuglas International, world leader in polymethyl methacrylate (PMMA) and are the ideal material for innovation. Their luminosity, chemical resistance and longevity are some of the many characteristics that make them unique products. From our comprehensive product portfolio on the market, you will always find the solution you need to put a competitive edge on your products. Continued Innovation at Altuglas International has resulted in the recent introduction of the following innovative products to the market:

### **ALTUGLAS® FROSTED**

- Luminosity and frosted effect
- Resists scratches and fingerprints
- Granular textured finish when extruded
- Applications: displays (POS), packaging, lighting fixtures and furniture

### **ALTUGLAS® HT 121**

- Transmits and guides light
- Resistant to very high temperatures
- UV- and scratch-resistant

### **ALTUGLAS® GRANITE**

- Granite effect
- Resistant to corrosion
- Multicoloured
- Matt or shiny, smooth or skid-proof
- Applications: displays (POS), pool and bathroom fixtures

**SOLARKOTE®** and *Altuglas Impact Resins "Capstock"* (co-extrusion) solutions for outdoors applications on practically all substrates (ABS, PC/ABS, PC, SAN, ABS, HIPS, PVC, PETG)

- Transparent
- Optical effect properties
- Resistant to chemicals
- Resistant to all weather and UV radiation
- Customized colours
- Easily transformed
- Heat stability



## **Altuglas MI-8E, a new extrusion acrylic resin with a better chemical resistance.**

The Altuglas International product range has become richer, with the introduction of a new clear acrylic resin, called Altuglas® MI-8E.

This grade offers an innovative balance between impact resistance, thermal properties, and an improved chemical resistance.

Altuglas® MI-8E is designed for extrusion and coextrusion applications, where thermoformability and good adhesion with substrates as ABS, PC, PVC, etc., are required.

Altuglas® MI-8E maintains the main and recognized characteristics of all Altuglas products : excellent optical clarity, scratch resistance, durability and ease of colouring.

Thanks to its improved chemical resistance, Altuglas® MI-8E enlarges the use of acrylic resins in demanding applications, such as those within the sanitary and building fields.

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