

Altuglas® Frosted, Matt & Super Matt Resins

Altuglas® Frosted, Matt & Super Matt Acrylic Resins provide a wide range of unique and refined looks and surface finishes to moulded pieces and semi-finished products. Of course, these pure acrylic grades carry the primary features traditionally associated with all Altuglas® grades: **excellent weathering and scratch resistance.**



Altuglas® Frosted 18 Grades

Altuglas® pure acrylic frosted grades exhibit a unique combination of:

- > 88% light transmission
- > 100% hiding power
- > pleasant textured surface (extrusion process)



Thanks to these specific features, fingerprints and small scratches are nearly invisible, and a refined look is ensured throughout the service life of the part.

The "Frost" intensity can also be easily adjusted to address specific needs. Being pure acrylic resins, Altuglas® Frosted Grades exhibit the standard PMMA features of outstanding weathering resistance and good mechanical strength.

Altuglas® Frosted Grades

Unlike any other competing plastic,

> Altuglas® Injection Moulding Frosted Resins are profitable solutions for varied markets such as lighting, cosmetics and consumer goods. Indeed, they do not require any protective or aesthetic coating to reach an ideal finish, which makes them more cost-effective

and environmentally-friendly.

They can be processed in your usual mould, eliminating the need for any investment or tool modification.

> Altuglas® Extrusion Frosted Resins, having outstanding ageing (UV and weathering) resistance, will ensure an extremely long service life for the sheets and profiles they cap without the need for any recovery work. Such parts being recyclable, Altuglas® offers the construction and transportation markets ecological and profitable solutions.



Altuglas®

Altuglas® Frosted Grades

| Properties | V 920T | V 920T Frosted 18 | HFI 7 | HFI 7 Frosted 18 | DRT | DRT Frosted 18 |
|-----------------------------|--------|-------------------|-------|------------------|------|----------------|
| Light Transmission (%) | 92 | 87 | 92 | 88 | 90 | 88 |
| Haze (%) | 0.5 | 100 | 1,5 | 100 | 2.0 | 100 |
| MFI (230°C/3.8kg) (g./10mn) | 6 | 3.5 | 11 | 5.5 | 0.8 | 0.7 |
| VICAT B50 (°C) | 103 | 103 | 90 | 97 | 100 | 101 |
| Flexural modulus (Mpa) | 3300 | 3300 | 2300 | 2300 | 1700 | 1700 |
| Charpy unnotched (kJ/m²) | 11 | 10 | 35 | 32 | 60 | 55 |
| Izod notched (kJ/m²) | 1.8 | 1.8 | 3.2 | 3.0 | 6.3 | 5.5 |

Properties

Altuglas® V920T Frosted 18 non impact-modified resin mainly intended for injection and extrusion, good processability and high heat resistance.

Altuglas® HFI 7 Frosted 18 impact-modified resin intended for injection and coextrusion, higher flow but slightly lower heat resistance.

Altuglas® DRT Frosted 18 more Impact and heat resistant resin intended for extrusion and coextrusion.

Thanks to their processing versatility, **Altuglas® Frosted Resins** are widely used today in the lighting market (extruded profiles and injected light fittings), as well as in the cosmetic, consumer goods and construction industries.

Altuglas® Matt & Super Matt Grades



Altuglas® Matt & Super Matt are impact-modified resins intended for extrusion and coextrusion. Being pure acrylic resins, they exhibit the specific PMMA features of outstanding weathering resistance, surface hardness and mechanical strength.

Altuglas® Matt & Super Matt Resins specific features include a:

- > Very attractive "non-plastic look" for the construction industry
- > Desirable soft touch for the transportation industry
- > Optimal Impact/ Matt balance
- > Processing versatility
- > Perfect finish retention following sheet thermoforming

Mattness can be easily adjusted to address specific needs.

Altuglas® Matt & Super Matt Grades

| Properties | DRT Matt | HFI 10 Super Matt |
|--|----------|-------------------|
| Light Transmission (%) | 90 | 90 |
| MFI (230°C/3.8kg) (g./10mn) | 1.6 | 1.7 |
| VICAT B50 (°C) | 98 | 93 |
| Flexural modulus (Mpa) | 1850 | 1890 |
| Charpy unnotched (kJ/m²) | 60 | 33 |
| Izod notched (kJ/m²) | 5 | 3.4 |
| Gloss 60° (on a 200µ m extruded sheet) | 25 | 6 |

Properties

Altuglas® DRT Matt intended for extrusion and coextrusion with high heat resistance and a 60° low gloss, - opaque shades are available on demand, - anti-static properties are available in opaque formulations.

Altuglas® HFI 10 Super Matt intended for coextrusion with slightly lower temperature resistance but a very low 60° gloss.

Unlike any other plastic solution, thermoformed sheets, roof tiles and profiles capped with Altuglas® Matt & Super Matt Resins offer long service life without the need for any recovery or maintenance work, and are recyclable. This makes them the most environmentally-friendly and cost-effective solution for the construction market. These lightweight and therefore fuel-saving solutions are also an ideal solution for transportation market.

Welcome to the world of Altuglas International, subsidiary of Arkema group

Altuglas International, a global integrated leader in PMMA is heavily involved in the technical plastic sector – from MMA monomer to PMMA acrylic glass – creating and manufacturing innovative products to suit customers' needs worldwide.

Its 1,300 highly committed staff make their contribution daily in our three businesses (MMA, sheet and PMMA resins).

Its five great brand names are references:

Altuglas®, Plexiglas® (Americas), Oroglass®, Solarkote®, Tuffak® (PC).