



Altuglas® Night & Day

ACRYLIC SHEET

Altuglas® Night & Day

Altuglas® Night & Day is a range of cast acrylic PMMA sheet developed by Altuglas International with the 'know how' and experience of the base product of this range **Altuglas® Black and White**. The combination of specially selected additives and a strong and professional light source will give an opportunity to create a state of the art signage. The colour to white effect will give an extra dimension to the visibility of illuminated signs. The special colour effect does not affect the general properties of the Altuglas® sheet which thus retains the durability and UV-stability that are unique to acrylic sheet.

As a result of market interest a complete 'colour switch' range is developed. The experience and know how of the black and white is used to extent a single product into a the present range containing different base colours.

Today different options are available like from blue, green or grey to white. Most of these are developed on customer requirements in line with international projects.

Specific properties Altuglas® Night & Day

The light transmission of the various colour types is between 20% and 25%. To optimise the colour switch effect it is important to use a sufficient luminance level. The luminance must be at least twice the amount of what is normally used for a conventional sign. Depending on the reference selected from the range a slightly 'tinted' white could remain during illumination, this is only for strong base coloured types.

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Altuglas® Black and White

Translucent black with outstanding diffusing properties is the main concept behind **Altuglas® Black and White**. A sign made with **Altuglas® Black and White** will be black during day time (when not illuminated) and white during the night time (when illuminated). The strength of the effect will present itself the best via application of the box letter concept. Small or big size signs completed with **Altuglas® Black and White** will give maximum contrast to its surroundings, means maximum visibility to the message of the sign.

Specific properties Altuglas® Black and White

The light transmission is approximately 11%. The light source used can be of any type (fluorescent tube, neon or even modern high output LED's). The best result will be obtained when luminance is twice the amount compared to a conventional sign. The ideal colour temperature between cool white (5000 K) or day light (6500 K).

Altuglas® Black and White at other applications

Besides the box letter application with full face illumination, Altuglas® black and white can also be used for the so called 'secret' signs this is a sign type

where only parts of the front are illuminated. This effect can be realised by using an adhesive blocking film. The concept of the secret sign is that a message can be made to appear or disappear, depending on whether it is illuminated or not.



General principle

The animation shows the composition of a secret sign set up.

1. white inside of the sign box for optimum luminance
2. black and white panel with adhesive blocking film on the backside
3. front panel of the sign

with the wording cut out of the blocking film
4. optional is combination with coloured film
5. light source, colour temperature cool white or daylight.

If only a single colour is involved for this secret sign application it is optional to have this integrated inside the Altuglas sheet, like **Altuglas® Black and Blue**, **Altuglas® Black and Red**, **Altuglas® Black and Green**.

Altuglas® Black and White

A translucent black PMMA sheet which gives a black (when not illuminated) and a white (when illuminated) appearance.

Altuglas® Night & Day

A translucent PMMA sheet in a variety of colours which give a coloured (when not illuminated) and a white (when illuminated) appearance.

Altuglas® Black and Coloured

A translucent black PMMA sheet which gives a black (when not illuminated) and a coloured (when illuminated) appearance.

Properties of the range

- > all product of this range are with one side satin finish.
- > Either side can be used as front side
- > Machine ability of **Night & Day** is identical to standard Altuglas® sheet. Details can be found inside the extended technical brochure or fabrication presentation on DVD.
- > Standard sheet size is 3050x2030mm
- > Thickness 3mm to 5 mm, available with respect of minimum quantities. References used for projects up to now:
 - 126.28000 for black and white
 - 126.28022 for grey and white
 - 126.23065 for blue and white
 - 126.24078 for green and white
 - 126.23027 for black and blue
 - 126.24025 for black and green
 - 126.22022 for black and red
- > special colours for tailor made projects can be realised .



www.altuglasint.com

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