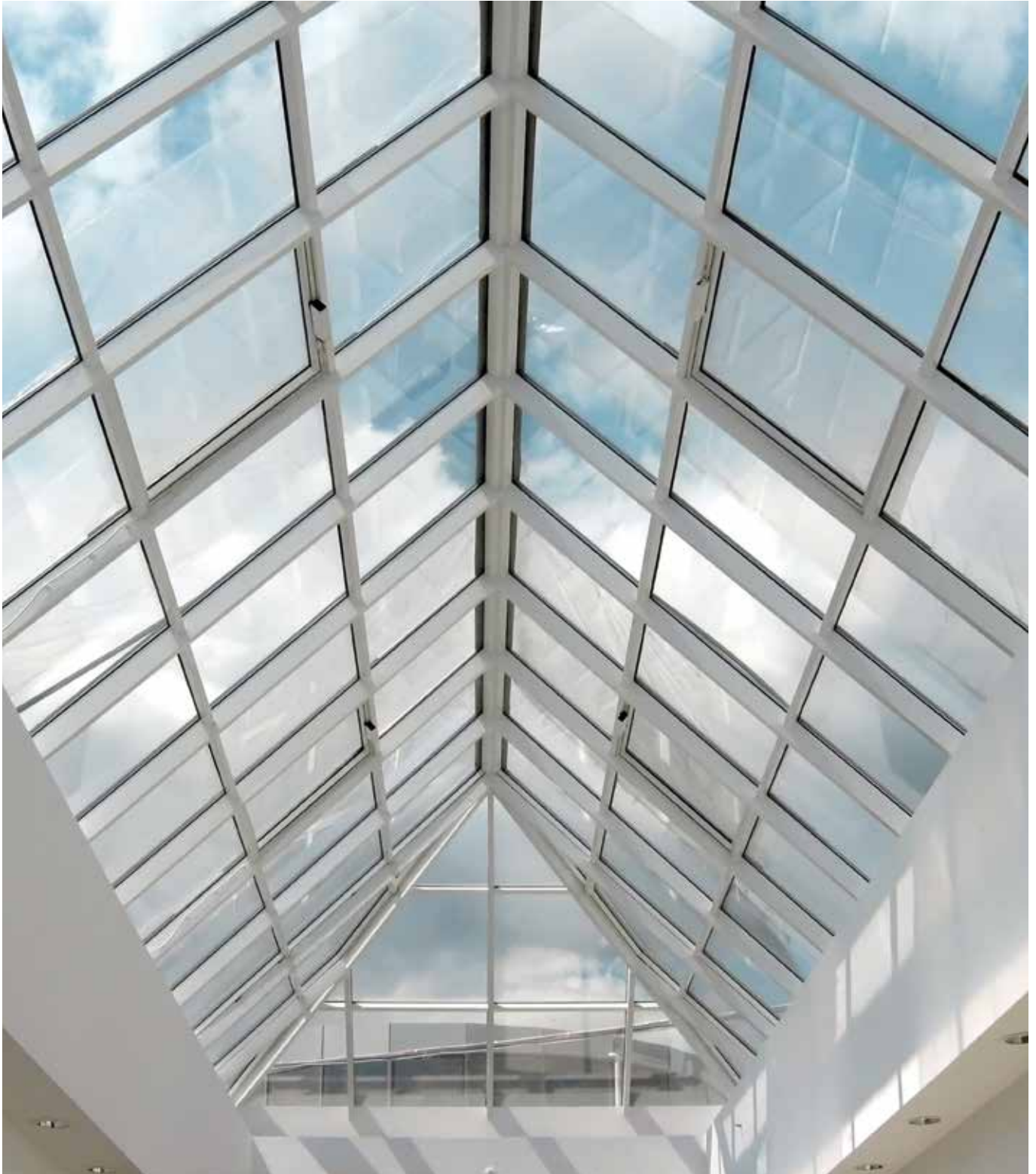
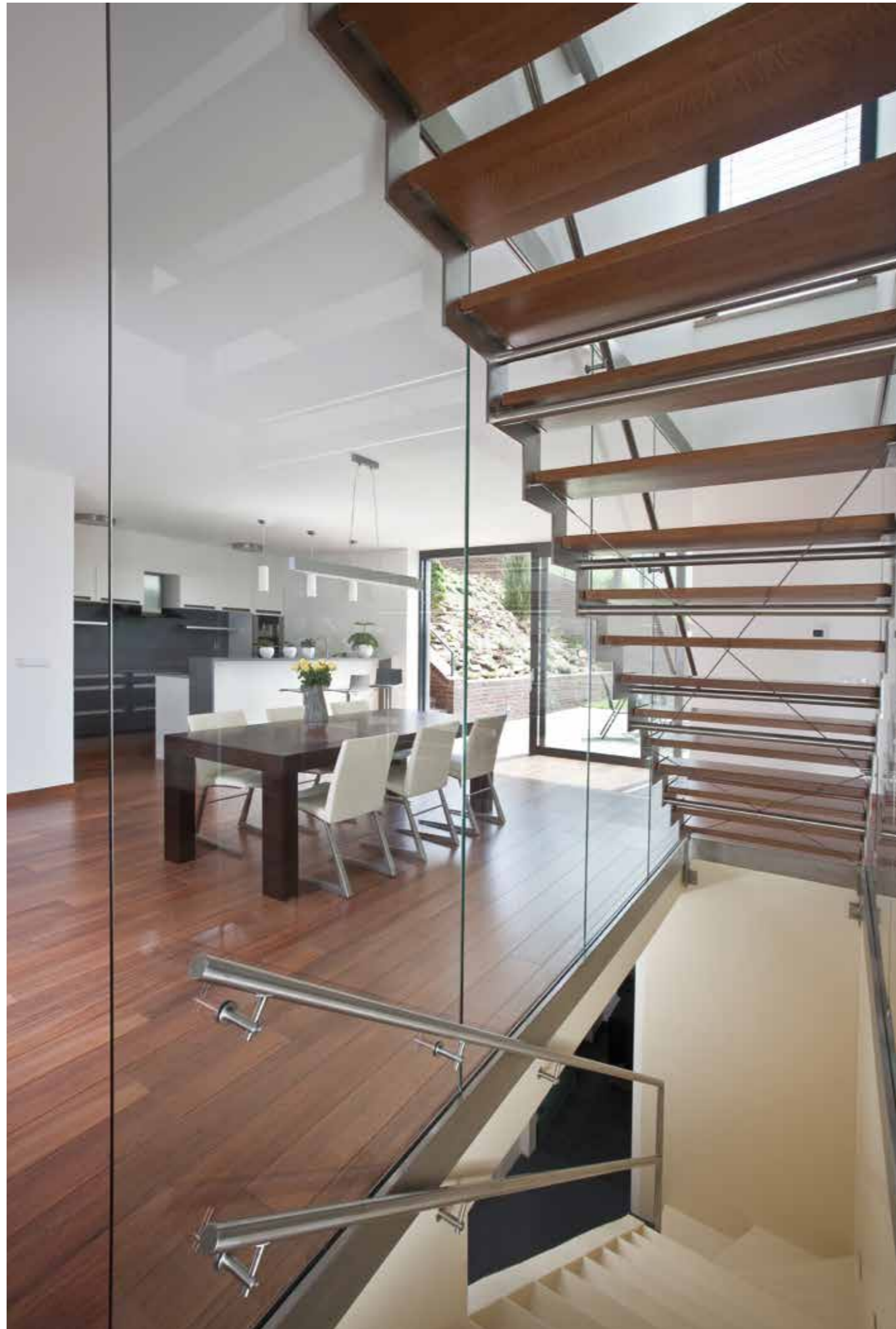




## PRODUCT GUIDE

EXTRUDED ACRYLIC IN BRILLIANT CLARITY.





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### CRYLON®

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## CRYLON®

CRYLON® comprises an extensive range of large-format, extruded acrylic glass sheets featuring outstanding clarity and first-rate optical characteristics, excellent colour rendering and varying degrees of transparency. Available in a range of clear, opals and opaques as well as selected colours and surface structures.

The premium quality surfaces have a high level of resistance to weathering and aging, and provide solutions for a variety of indoor and outdoor applications. CRYLON® is available in thicknesses from 1 to 25 mm.

Sustainable involvement and environmental protection have always been amongst the essential corporate objectives at 3A Composites. The minimisation of risks for man and environment as well as the reduction of environmental pollution through careful and efficient utilisation of resources is part of the corporate philosophy.

Our production site in Mainz, Germany is certified to DIN EN ISO 9001 for quality and to DIN EN ISO 50001 for energy. In addition, ongoing efforts are being made to reduce CO<sub>2</sub> emissions by scaling back energy and water consumption, increasing productivity and avoiding waste. Natural gas consumption, for instance, has been successfully reduced by more than 10% since 2019.

The site is also participating in the programme Operation Clean Sweep® (OCS), which is dedicated to preventing plastic resin loss and to ensuring that this material does not end up in the environment.

CRYLON® sheets are subject to the highest quality standards and stringent monitoring. Our top priority is to ensure that CRYLON® sheets do not contain any hazardous substances. None of the raw materials used to produce CRYLON® sheets contain any heavy metals.

Read more about our commitment to sustainability starting on page 12.

[CRYLON® – EXTRUDED ACRYLIC IN BRILLIANT CLARITY.](#)

# CRYLON®

EXTRUDED ACRYLIC IN BRILLIANT CLARITY.

## CHARACTERISTICS

- Good optical properties
- Brilliant transparency
- Excellent colour rendering
- High-quality surfaces
- Very good weathering and ageing resistance
- Can be used in contact with foodstuff – meets all current European food control legislations
- Does not contain any toxic materials or heavy metals
- High impact grades (CRYLON® High Impact) for specific applications
- Easy to recycle
- Easy to fabricate
- Fire classification according to EN 13501-1 and UL94 HB, for CRYLON® standard grades
- CRYLON® sheets are provided with a 10-year warranty

## APPLICATION

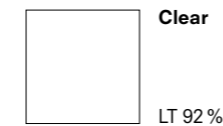
- Displays (POS/POP)
- Signage | Lettering
- Corporate identity
- Shop design | Shop window decoration
- Interior design | Furniture
- Partitions | Cladding
- Lighting | Light boxes
- Glazing
- Food contact approved

## PROCESSING

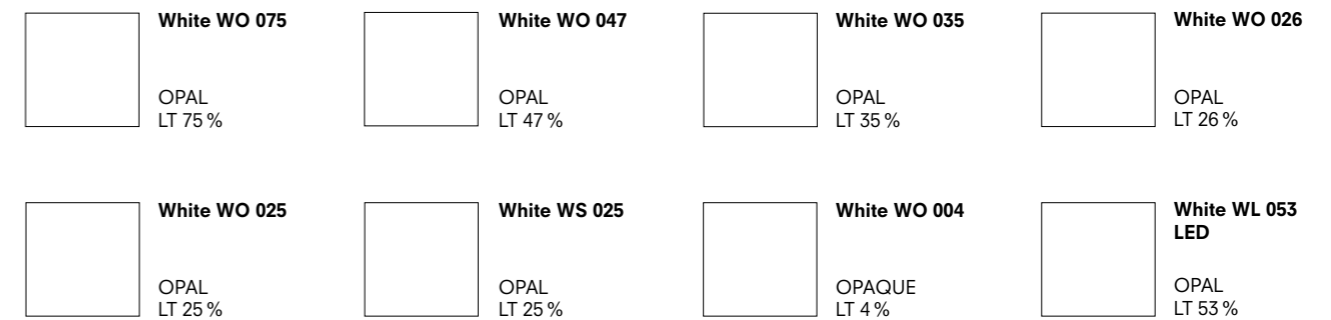
- Digital printing | Screen printing
- Laminating
- Painting | Spray painting | Lacquering
- Contour milling
- Laser cutting | Water jet cutting
- Sawing | Punching | Gluing | Drilling | Riveting | Screwing
- Thread cutting
- Folding (V-groove)
- Hot bending | Thermoforming
- Engraving | Polishing
- Tempering



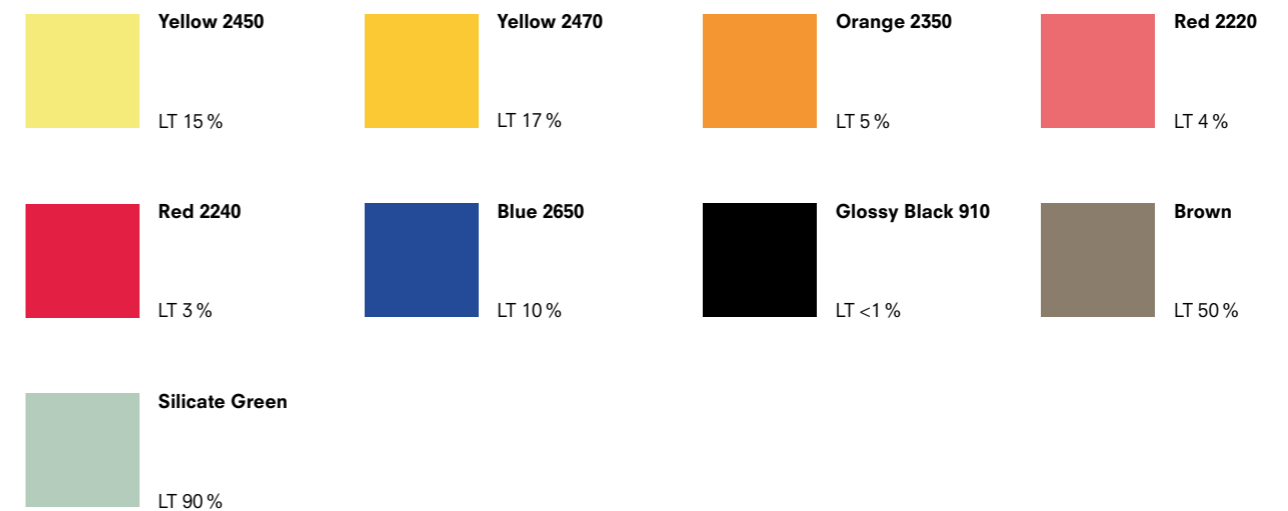
## CLEAR TRANSPARENT



## WHITE OPAL/OPAQUE



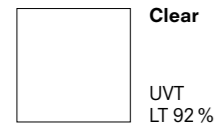
## COLOURS



OPAQUE = non-transparent , OPAL = semi-transparent  
 LT = Light transmission (Figures apply to 3 mm sheet thickness only. For the colours Brown and Silicate Green, the light transmission is constant over the entire thickness range, for the colour White WS 025 over the thickness range 2 – 6 mm.)  
 The colours printed may vary from the original. To ensure exact colour matching please ask for a colour sample.

# CRYLON® UVT

CRYLON® UVT is perfectly suitable for solariums and sunbeds. The sheets have high transmittance in the UV-A/UV-B spectral range and very good resistance to degradation following exposure to these rays.

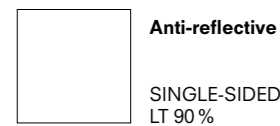


**Clear**

UVT  
LT 92%

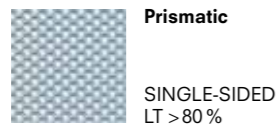
# CRYLON® Surface Structures

Besides the standard CRYLON® variants and the special products High Impact (page 17) and UVT, there is a variant available with a slight matt surface structure for a clear view without interfering light reflections (anti-reflective) as well as a patterned surface version (Prismatic – pyramid structure). They are particularly suitable for the areas glazing and decoration.



**Anti-reflective**

SINGLE-SIDED  
LT 90%



**Prismatic**

SINGLE-SIDED  
LT > 80%

UVT = transparent to UV light

LT = Light transmission (Figures apply to 3 mm sheet thickness only.)

The colours printed may vary from the original. To ensure exact colour matching please ask for a colour sample.



| PRODUCTS   |               |                   | CRYLON®                  |
|--|---------------|-------------------|--------------------------|
| <b>GENERAL</b>   |               |                   |                          |
| Density  | ISO 1183      | kg/m <sup>3</sup> | 1190                     |
| Water absorption against dry state (24h/23°C – 50x50x4 mm <sup>3</sup> ) | ISO 62-1      | %                 | 0.2                      |
| Moulding shrinkage   | ISO 294-4     | %                 | 0.5 – 0.8                |
| Food contact – GHP   | EU 10/2011    | –                 | conform                  |
| Biocompatibility   | ISO 10993-5   | Classification    | no cytotoxic             |
| <b>MECHANICAL</b>  |               |                   |                          |
| Tensile modulus  | ISO 527-2     | MPa               | 3100                     |
| Tensile strength   | ISO 527-2     | MPa               | 70                       |
| Elongation at break  | ISO 527-2     | %                 | 4                        |
| Flexural modulus   | ISO 178       | MPa               | 3000                     |
| Flexural strength  | ISO 178       | MPa               | 110                      |
| Impact strength Charpy, unnotched  | ISO 179-1/1eU | kJ/m <sup>2</sup> | 15                       |
| Impact strength Charpy, notched  | ISO 179-1/1eA | kJ/m <sup>2</sup> | 2                        |
| Ball indentation hardness  | ISO 2039-1    | MPa               | 235                      |
| <b>OPTICAL</b>   |               |                   |                          |
| Light transmission (3 mm)  | ISO 13468-2   | %                 | 92                       |
| Refractive index n <sub>D</sub> <sup>20</sup>                            | ISO 489       | –                 | 1.492                    |
| Haze   | ISO 14782     | %                 | < 1                      |
| Total solar energy transmission, g value (3 mm)                          | EN 410        | %                 | 86                       |
| Gloss value  | DIN 67530     | %                 | > 100                    |
| <b>THERMAL</b>   |               |                   |                          |
| Deflection temperature under load, DTUL (method A / B)                   | ISO 75-2      | °C                | 95 / 100                 |
| VICAT temperature (Method B 50)  | ISO 306       | °C                | 105                      |
| Coefficient of linear thermal expansion                                  | ISO 11359-2   | mm/m x °C         | 0.07                     |
| Service temperature continuous use                                       | –             | °C                | 70                       |
| Service temperature at short term use                                    | –             | °C                | 90                       |
| Degradation temperature  | –             | °C                | > 280                    |
| Forming temperature<br>– air pressure<br>– vacuum                        | –             | °C                | 140 – 160<br>160 – 190   |
| Specific heat capacity   | ISO 11357-4   | J/gK              | 1.47                     |
| Thermal conductivity   | ISO 22007-1   | W/mK              | 0.18                     |
| Fire resistance  | EN 13501-1    | Classification    | E<br>no burning droplets |
|  | UL94          | Classification    | HB                       |
| <b>ELECTRICAL</b>  |               |                   |                          |
| Dielectric strength  | IEC 60243-1   | kV/mm             | 30                       |
| Electrical strength  | IEC 60243-1   | kV/mm             | 10                       |
| Volume resistivity   | IEC 62631-3-1 | Ω m               | 10 <sup>13</sup>         |
| Surface resistivity  | IEC 62631-3-2 | Ω                 | 10 <sup>15</sup>         |
| Relative permittivity (1 MHz)  | IEC 60250     | –                 | 2.7                      |
| Dielectric dissipation factor (1 MHz)                                    | IEC 60250     | –                 | 0.02                     |

Note: These technical data of our products are typical ones for CRYLON®. The actually measured values are subject to production variations.

| PRODUCTS   | CRYLON® HI 610 | CRYLON® HI 620    | CRYLON® HI 630  |
|--|----------------|-------------------|---|
| <b>GENERAL</b>   |                |                   |   |
| Density  | ISO 1183       | kg/m <sup>3</sup> | 1150 1160 1170  |
| Water absorption against dry state (24h/23°C – 50x50x4 mm <sup>3</sup> ) | ISO 62-1       | %                 | 0.3 0.3 0.25  |
| Moulding shrinkage   | ISO 294-4      | %                 | 0.6 – 0.9 0.6 – 0.9 0.6 – 0.9                               |
| Food contact – GHP   | EU 10/2011     | –                 | conform conform conform                                     |
| Biocompatibility   | ISO 10993-5    | Classification    | no cytotoxic no cytotoxic no cytotoxic                      |
| <b>MECHANICAL</b>  |                |                   |   |
| Tensile modulus  | ISO 527-2      | MPa               | 1700 2200 2400  |
| Tensile strength   | ISO 527-2      | MPa               | 40 50 55  |
| Elongation at break  | ISO 527-2      | %                 | 35 25 15  |
| Flexural modulus   | ISO 178        | MPa               | 1700 2200 2400  |
| Flexural strength  | ISO 178        | MPa               | 60 80 90  |
| Impact strength Charpy, unnotched  | ISO 179-1/1eU  | kJ/m <sup>2</sup> | 65 45 35  |
| Impact strength Charpy, notched  | ISO 179-1/1eA  | kJ/m <sup>2</sup> | 5 4 3   |
| Ball indentation hardness  | ISO 2039-1     | MPa               | 100 135 155   |
| <b>OPTICAL</b>   |                |                   |   |
| Light transmission (3 mm)  | ISO 13468-2    | %                 | 90 90 91  |
| Refractive index n <sub>D</sub> <sup>20</sup>                            | ISO 489        | –                 | 1.492 1.492 1.492   |
| <b>THERMAL</b>   |                |                   |   |
| VICAT temperature (Method B 50)  | ISO 306        | °C                | 98 102 104  |
| Coefficient of linear thermal expansion                                  | ISO 11359-2    | mm/m x °C         | 0.11 0.10 0.09  |
| Service temperature continuous use                                       | –              | °C                | 65 65 65  |
| Service temperature at short term use                                    | –              | °C                | 75 80 85  |
| Degradation temperature  | –              | °C                | > 280 > 280 > 280   |
| Forming temperature – air pressure – vacuum                              | –              | °C                | 130 – 150 140 – 170 130 – 150 140 – 170 130 – 150 140 – 170 |
| Specific heat capacity   | ISO 11357-4    | J/gK              | 1.5 1.5 1.5   |
| Thermal conductivity   | ISO 22007-1    | W/mK              | 0.18 0.18 0.18  |
| Fire resistance  | UL94           | Classification    | HB HB HB  |
| <b>ELECTRICAL</b>  |                |                   |   |
| Dielectric strength  | IEC 60243-1    | kV/mm             | 30 30 30  |
| Relative permittivity (1 MHz)  | IEC 60250      | –                 | 2.9 2.9 2.9   |
| Dielectric dissipation factor (1 MHz)                                    | IEC 60250      | –                 | 0.03 0.03 0.03  |

Note: These technical data of our products are typical ones for CRYLON®. The actually measured values are subject to production variations.

| PRODUCTS   | CRYLON® SOFT TONE       | CRYLON® SBW       |                                 |
|--|-------------------------|-------------------|---------------------------------|
| <b>GENERAL</b>   |                         |                   |                                 |
| Density  | ISO 1183                | kg/m <sup>3</sup> | 1190 1190                       |
| Water absorption against dry state (24h/23°C – 50x50x4 mm <sup>3</sup> ) | ISO 62-1                | %                 | 0.2 –                           |
| Moulding shrinkage   | ISO 294-4               | %                 | 0.5 – 0.8 –                     |
| <b>MECHANICAL</b>  |                         |                   |                                 |
| Tensile modulus  | ISO 527-2               | MPa               | 3100 3100                       |
| Tensile strength   | ISO 527-2               | MPa               | 70 70                           |
| Elongation at break  | ISO 527-2               | %                 | 4 –                             |
| Flexural modulus   | ISO 178                 | MPa               | 3000 –                          |
| Flexural strength  | ISO 178                 | MPa               | 110 –                           |
| Impact strength Charpy, unnotched  | ISO 179-1/1eU           | kJ/m <sup>2</sup> | 15 –                            |
| Impact strength Charpy, notched  | ISO 179-1/1eA           | kJ/m <sup>2</sup> | 2 –                             |
| <b>OPTICAL</b>   |                         |                   |                                 |
| Light transmission   | ISO 13468-2             | %                 | 88 (3 mm) > 90 (15 - 25 mm)     |
| Refractive index n <sub>D</sub> <sup>20</sup>                            | ISO 489                 | –                 | 1.492 –                         |
| Gloss value  | DIN 67530               | %                 | < 35 –                          |
| <b>THERMAL</b>   |                         |                   |                                 |
| VICAT temperature (Method B 50)  | ISO 306                 | °C                | 105 105                         |
| Coefficient of linear thermal expansion                                  | ISO 11359-2             | mm/m x °C         | 0.07 0.07                       |
| Service temperature continuous use                                       | –                       | °C                | 70 70                           |
| Service temperature at short term use                                    | –                       | °C                | 90 90                           |
| Degradation temperature  | –                       | °C                | > 280 > 280                     |
| Forming temperature – air pressure – vacuum                              | –                       | °C                | 140 – 160 160 – 190 140 – 160 – |
| Specific heat capacity   | ISO 11357-4             | J/gK              | 1.47 1.47                       |
| Thermal conductivity   | ISO 22007-1             | W/mK              | 0.19 0.18                       |
| Fire resistance  | UL94                    | Classification    | HB –                            |
| <b>ELECTRICAL</b>  |                         |                   |                                 |
| Dielectric strength  | IEC 60243-1             | kV/mm             | 30 –                            |
| Electrical strength  | IEC 60243-1             | kV/mm             | 10 –                            |
| Volume resistivity   | IEC 62631-3-1           | Ω m               | 10 <sup>13</sup> –              |
| Surface resistivity  | IEC 62631-3-2           | Ω                 | 10 <sup>15</sup> –              |
| Relative permittivity (1 MHz)  | IEC 60250               | –                 | 2.7 –                           |
| Dielectric dissipation factor (1 MHz)                                    | IEC 60250               | –                 | 0.02 –                          |
| <b>SOUND BARRIER WALL</b>  |                         |                   |                                 |
| Airborne sound insulation DL <sub>R</sub> 15 – 25 mm                     | EN 1793-2:2013          | dB                | 31 – 32   group B3              |
| Absorbable windload 15 – 20mm (2m x 2m)   20 – 25mm (2m x 3m)            | EN 1794-1:2011, Annex A | kN/m <sup>2</sup> | – 2.13   1.86                   |
| Stone impact resistance  | EN 1794-1:2011, Annex C | –                 | – requirements fulfilled        |
| Fire resistance (undergrowth fire)                                       | EN 1794-2:2011, Annex A | Classification    | – class 3                       |

Note: These technical data of our products are typical ones for CRYLON®. The actually measured values are subject to production variations.

# SUSTAINABILITY

MISSION: TOGETHER. RESPONSIBLE.

Sustainability is at the core of everything we do. Our corporate ecological commitment is summed up by the **MISSION: TOGETHER. RESPONSIBLE.** As we also apply and comply with this mission in regard to our products, we have created a classification system. The five different categories in our **FIVE-DOT-MISSION** system indicate the factors with the greatest impact on sustainability. Our intention is to offer our partners guidance with their purchasing decision-making and to provide a transparent system. A system which focuses on the use of materials, the CO<sub>2</sub> content, the product life cycle and, of course, recycling, a topic of particular relevance for our products. Our FIVE-DOT-MISSION makes an assessment of a product on the basis of five categories and awards points per category, the product is then assigned to one of the five coloured DOTs. By this means we achieve a transparent, quick valuation logic which we can also use to gauge product innovation and improvement at 3A Composites.

## THE FIVE-DOT CATEGORIES ARE:

**1. BIOBASED CONTENT**  
Depending on the product, different raw materials are used to manufacture our panels. In this case, we look at the percentage of renewable raw materials used in our products. Our aim is to increase the percentage whenever possible and appropriate.

**2. RECYCLED CONTENT**  
The industry selects recycled raw materials for use in the manufacture of new products which also fulfil requirements such as fire ratings, processing prerequisites and customer expectations in terms of functionality and appearance. This category is where we gauge the proportion of high quality recycled raw material in our products' total material input.

**3. FOSSIL CO<sub>2</sub> BOUND IN THE MATERIAL**  
This category shows the weight of fossil CO<sub>2</sub> embedded in our panels. Differences here are principally due to the raw material type and origin, the density, the composition and the proportion of recycled content.

**4. PRODUCT LIFE CYCLE**  
The plastic sheets and composite panels we produce are used by our customers for a longer period of time. In contrast to products used in the short term, these longer-term alternatives make an active contribution to saving resources. In this category we show our panels' average service life. Material properties result in disparities, so life cycles range from <1 year to even >30 years.

**5. RECYCLABILITY**  
One of the most important aspects of sustainability is contributing to environmental protection by saving valuable raw materials and avoiding waste. Unlike the second category "recycled content", in this assessment category, we show options for recycling the panels after they have been in use. There are already, for instance, established recycling loops for paper and metals. At some production sites, the material can already be returned, so that material for new panels can be created from it. As a company, we came to the conclusion that thermal recycling does not seem sustainable enough, so it is not included in our FIVE-DOT classification. Instead, we are actively working with partner companies to establish a closed-loop, sustainable and future-oriented recycling economy.

As many as 3 points can be achieved in each of the categories presented, totalling a maximum of 15 points. According to the total number of points achieved (1-15), the FIVE-DOT classification is conducted using the following colour gradation.



Transparency is important to us! We will review the product assessment annually to see in which areas the product can be improved. We have set ourselves the goal of achieving the majority of our sales with products which achieve a rating of ≥ 7 points in the FIVE-DOT classification by 2030.

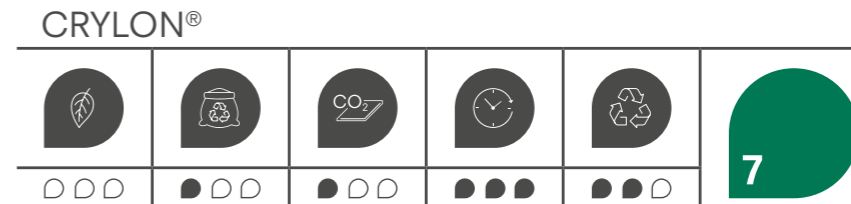
Join us on our sustainable mission!



# SUSTAINABILITY

## CRYLON® FIVE-DOT-MISSION

CRYLON® extruded acrylic glass sheets, offering brilliant clarity, have been assessed in line with the criteria described above. The product currently achieves a FIVE-DOT classification of 7 points in total.



### RECYCLED CONTENT

The current production of our CRYLON® acrylic sheets already contains a proportion of recycled PMMA material. The majority of this material is waste from the manufacturing process which, after being sorted into individual types, can be fed back into the production process as regrind to produce new CRYLON® sheets. We aim to continue increasing the proportion of recycled regrind in the future.

All raw materials used in our CRYLON® sheets comply with the requirements in the current version of the European Union's Chemicals Regulation (REACH). In particular, CRYLON® sheets are free of any of the substances listed in the current version of the ECHA Candidate List of Substances of Very High Concern (SVHC).



### FOSSIL CO<sub>2</sub> BOUND IN THE MATERIAL

Owing to the MMA used as a raw material in the manufacturing process, CRYLON® contains fossil carbon. However, thanks to its lower density, CRYLON® contains less fossil carbon per m<sup>2</sup> than other transparent plastics. As well as the lower density, another factor to note is that, compared with other plastics, the polymer molecule contains a lower percentage of carbon atoms.



### PRODUCT LIFE CYCLE

Our CRYLON® acrylic glass sheets are made of extruded PMMA, a very robust, highly transparent and extremely durable material featuring excellent UV stability and resistance to weathering and ageing. We guarantee a service life of ten years for the CRYLON®

product family. The sheets are protected against the harmful effects of ultra violet rays and there are no significant changes with regard to optical or mechanical properties. When processed, used, and cared for in an appropriate manner, the life cycle of our sheets can be considerably longer than ten years. An extended service life also leads to saving resources as fewer replacements are required. Our CRYLON® sheets are used in a wide variety of interior and exterior applications where priorities include durability, UV stability and, above all, transparency (92% light transparency for colourless sheets). CRYLON® is a product offering sustainable, long-term use and excellent product performance.



### RECYCLABILITY

CRYLON® sheets can be converted back into their original raw material, methyl methacrylate (MMA), using various recycling processes. Most modern recycling processes for extruded acrylic glass sheets use mechanical processes which, after sorting the material by type and grinding the PMMA sheets or waste material, feed the regrind back into manufacturing processes to produce new sheets. In addition to mechanical recycling, the sheets can also be converted into an MMA liquid monomer using chemical recycling (depolymerisation). The MMA recovered can then be reused to create new PMMA sheets which comply with the highest quality standards. Renowned chemical companies are currently undertaking intensive research into improved depolymerisation technologies to achieve a more efficient and sustainable means of recovering the precious raw material MMA.





# CRYLON® HIGH IMPACT

ACRYLIC SHEETS WITH EXCELLENT IMPACT STRENGTH.

CRYLON® High Impact is the impact-modified product line in the CRYLON® family. It is especially robust, durable and weather-resistant. The three versions available – CRYLON® HI 610, CRYLON® HI 620 and CRYLON® HI 630 – feature outstanding optical and mechanical properties. CRYLON® HI is the first choice for a wide range of indoor and outdoor applications due to its wide operational range from approximately -20 °C to 65 °C. The impact-modified versions are characterised by a much higher resistance to stress cracking, in particular when exposed to chemicals.

CRYLON® High Impact sheets, like the standard CRYLON® version, are user-friendly and can be processed using all standard processing methods. In addition, the sheets can be formed at lower temperatures, which results in energy savings.

CRYLON® High Impact is available in transparent and opal versions.

## CHARACTERISTICS




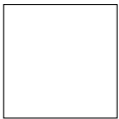
- Excellent impact strength
- Outstanding optical and mechanical properties
- Very good weathering and ageing resistance
- Does not contain any toxic materials or heavy metals
- Easy to handle, fabricate and form
- Fire classification according to UL94 HB
- For special applications

## APPLICATION

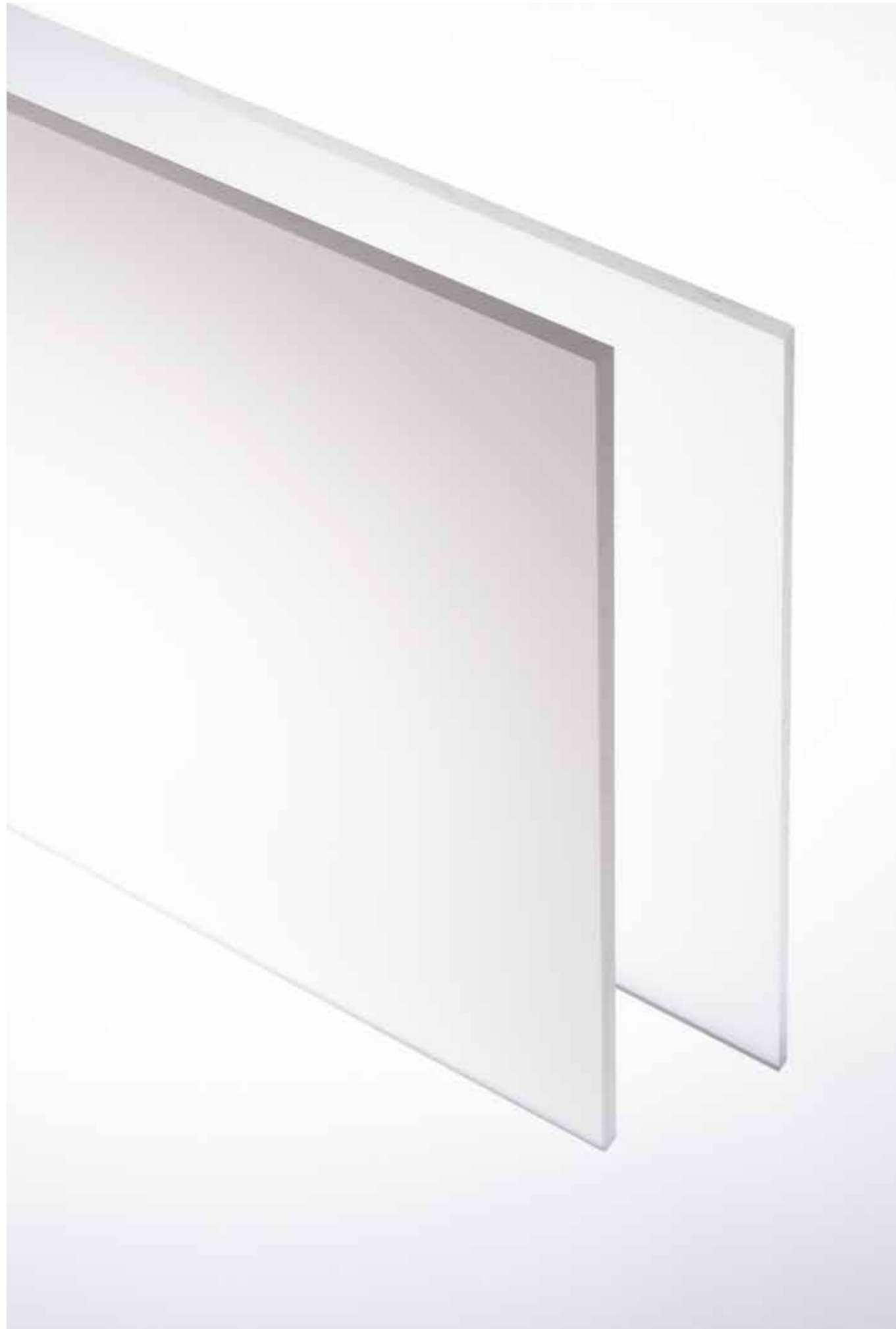
- Displays (POS/POP)
- Signage | Lettering
- Shop design | Shop window decoration
- Partitions | Cladding
- Lighting | Light boxes
- Glazing

## PROCESSING

- Digital printing | Screen printing
- Laminating
- Painting | Spray painting | Lacquering
- Contour milling
- Laser cutting | Water jet cutting
- Sawing | Punching | Gluing
- Drilling | Riveting | Screwing
- Thread cutting
- Folding (V-groove)
- Hot bending | Thermoforming
- Engraving
- Polishing
- Tempering

|  |   |  |  |
|--|---|--|--|
| <br><b>Clear</b><br>HI 610<br>LT 90 % | <br><b>White WO 026</b><br>HI 610<br>LT 26 % | <br><b>Clear</b><br>HI 620<br>LT 91 % | <br><b>Clear</b><br>HI 630<br>LT 91 % |
|--|---|--|--|

LT = Light transmission (Figures apply to 3 mm sheet thickness only.)



# CRYLON® SOFT TONE

## DOUBLE-SIDED MATT SURFACE.

CRYLON® Soft Tone is an extruded acrylic sheet with the appearance and feel of traditional frosted glass.

Due to its outstanding properties, CRYLON® Soft Tone provides a wide range of application possibilities for building and industrial glazing, decoration, lighting and advertising. Thanks to the double-sided matt surface of the material, images and text are to be seen clearly in all lighting conditions without distracting reflections.

Moreover, the relatively insensitive, easy to clean surface offers protection from scuffs, scratches and fingerprints.

### CHARACTERISTICS



- Double-sided matt surface (single-sided matt on request)
- Improves light scatter
- Good optical properties
- Avoids reflective effects
- Stylish, trendy look
- Easy to maintain
- Very good weathering and ageing resistance
- Provided with a 10-year warranty
- Easy to handle, fabricate and form
- Does not contain any toxic materials or heavy metals
- Fire classification according to UL94 HB
- Stable thickness tolerances
- Overlengths available

### APPLICATION

- Signage | Lettering
- Shop design | Shop window decoration
- Partitions | Cladding
- Lighting | Light boxes
- Glazing

### PROCESSING

- Digital printing | Screen printing
- Laminating
- Painting | Spray painting | Lacquering
- Contour milling | Laser cutting | Water jet cutting
- Sawing | Punching | Gluing | Drilling | Screwing
- Thread cutting
- Folding (V-groove)
- Hot bending
- Thermoforming
- Engraving | Polishing
- Tempering

|   |                              |   |                              |
|---|------------------------------|---|------------------------------|
|  | <b>Clear</b>                 |  | <b>White WO 075</b>          |
|   | DOUBLE-SIDED MATT<br>LT 88 % |   | DOUBLE-SIDED MATT<br>LT 75 % |

LT = Light transmission (Figures apply to 3 mm sheet thickness only.)



# CRYLON® SBW SOUND BARRIER WALL

## TRANSPARENT AND NOISE REDUCING

CRYLON® SBW Sound Barrier Wall is a sound absorbing material used in noise protection equipment on roads. Thanks to the optical properties and the very high transparency, it allows an unhindered view of the surroundings.

The advantages of using CRYLON® SBW in comparison with more traditional materials such as concrete are that it: is much more lightweight (allowing for easier construction); has a better optical view; avoids the creation of solid divisions; and is more aesthetically pleasing due to the range of colours and finishes available.

The CRYLON® SBW Soft Tone version features a matt surface, which is achieved by a special co-extruded coating on one or both sides. The satin matt finish on the surface avoids reflective effects, improves light scatter, and in so doing enhances the sound barrier's function.

CRYLON® SBW and its variations have been tested and approved according to the European standards EN 1793 and EN 1794 and correspond to the German regulatory ZTV-Lsw06. They comply with the requirements for noise insulation, fire performance, stability under wind load and stone cast resistance.

### CHARACTERISTICS




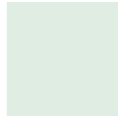




- Excellent noise reduction
- High break-resistance
- Good optical properties
- Very high transparency
- Superior UV light resistance and outstanding weather resistance
- Easy to fabricate
- Mechanical stability
- Fire resistance according to DIN EN 1794-2
- Does not contain any toxic materials or heavy metals

### PROCESSING

- Digital printing | Screen printing
- Laminating
- Contour milling
- Laser cutting | Water jet cutting
- Sawing | Drilling | Gluing | Thread cutting
- Hot bending
- Polishing | Tempering

### APPLICATION

- Sound barrier wall devices
- Large scale glazing

|   |   |   |   |
|---|---|---|---|
|  *Clear<br>LT 90 %     |  *Blue 115<br>LT 44 %  |  *Blue 120<br>LT 50 %  |  *Green 110<br>LT 83 % |
|  *Green 036<br>LT 67 % |  *Green 125<br>LT 56 % |  *Brown 115<br>LT 45 % |  *Grey 115<br>LT 7 %   |

\* = Tested and certified in accordance with the requirements of EN 1793 and EN 1794 and approved for use in Sound Barrier Walls.  
 LT = Light transmission (Figures apply to 20 mm sheet thickness only.)  
 The colours printed may vary from the original. To ensure exact colour matching please ask for a colour sample.



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