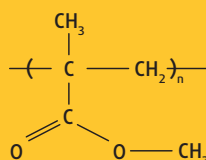


## ALTUGLAS™ CN CLEARWHITE

The ALTUGLAS™ CN Clearwhite product group has the full range of different transparencies within itself; from completely clear, via opal, up to full opaque white. Numerous white shades and light transmissions are available. It is a transparent/translucent/opaque product commonly named « Acrylic Glass ». Weighing half the weight of the glass, it can be easily thermoformed, bended, cut, drilled and glued. There's no limit to your imagination.

### MAIN PROPERTIES

PMMA  
(POLYMETHYLMETHACRYLATE)



Light

Transparent to opaque

UV resistant - No Yellowing

Thermoformable

Easy machining



### MAIN APPLICATIONS

- Furniture
- Shop fitting
- POP/POS, display
- Signage
- Glazing
- Skydome
- Machine cover

### PACKAGING

- Our standard film offers a strong adhesion thanks to an additional adhesive layer. On demand a dedicated thermoformable film can be proposed
- Our product is stored on wood pallets with a PP sheet at the bottom and a cardboard at the top
- The total weight of the pallet + sheets is less than one ton

### STORAGE

**The following rules have to be applied:**

- Store the product in a dry place, indoors
- Place a polyethylene cover over the stack when a sheet is removed, to reduce moisture absorption
- Only use original delivery pallets
- Stack pallets of the same size and design to prevent waving
- Place pallets on even surfaces (floor or shelf)
- The durability of the protective film is limited (sensitive to UV, temperature, humidity and chemicals)

### CERTIFICATES

- Our sheets rely to the norm ISO 7823-1 : 2003 regarding types, dimensions and characteristics
- Our management system fulfils the requirements of the ISO 9001 : 2015

## TYPICAL VALUES

|  | Measurement Method | Unit              | Value                        |
|--|--------------------|-------------------|------------------------------|
| <b>General characteristics</b>         |                    |                   |                              |
| Density                                | ISO 1183           | g/cm <sup>3</sup> | 1.19                         |
| Water absorption (24h)                 | ISO 62             | %                 | 0.3                          |
| Water absorption (8 days)              | ISO 62             | %                 | 0.5                          |
| Thickness tolerance                    |                    |                   | ± (0.4 mm + 0.1 x thickness) |
| <b>Mechanical properties</b>           |                    |                   |                              |
| Modulus of elasticity (23 °C)          | ISO 527-2          | MPa               | 3300                         |
| Tensile strength (23 °C)               | ISO 527            | MPa               | 76                           |
| Charpy impact strength (un-notched)    | ISO 179/2D         | KJ/m <sup>2</sup> | 12                           |
| Surface hardness (Rockwell scale M)    | ISO 2039           | -                 | 100                          |
| <b>Thermal properties</b>              |                    |                   |                              |
| Vicat softening point (B50)            | ISO 306            | °C                | 115                          |
| Coefficient of linear expansion        | ISO 11359          | mm/m/°C           | 0.065                        |
| Maximum continuous service temperature | -                  | °C                | 85                           |
| Maximum heating temperature            | -                  | °C                | 200                          |
| Linear shrinkage after heating         | -                  | %                 | < 2                          |
| Forming temperature                    | -                  | °C                | 165-190                      |
| <b>Optical properties</b>              |                    |                   |                              |
| Light transmittance (LT) at 3mm        | ISO 13468          | %                 | -                            |
| ALTUGLAS™ 100.10000                    | Clear              | %                 | 92                           |
| ALTUGLAS™ 100.27085                    | Opal               | %                 | 90                           |
| ALTUGLAS™ 100.27018                    | Opal               | %                 | 82                           |
| ALTUGLAS™ 100.27013                    | Opal               | %                 | 70                           |
| ALTUGLAS™ 100.27016                    | Opal               | %                 | 50                           |
| ALTUGLAS™ 100.27100 (LED system)       | Opal               | %                 | 50                           |
| ALTUGLAS™ 100.27000                    | Opal               | %                 | 40                           |
| ALTUGLAS™ 100.27006                    | Opal               | %                 | 30                           |
| ALTUGLAS™ 101.27021*                   | Opal               | %                 | 28                           |
| ALTUGLAS™ 101.47005*                   | White              | %                 | 10                           |
| ALTUGLAS™ 101.47010                    | White              | %                 | 0                            |
| <b>Flammability</b>                    |                    |                   |                              |
| Self-ignition temperature              | -                  | °C                | ~ 450                        |
| Melt behaviour when burning            | -                  | -                 | Non drip                     |
| Glow wire resistance                   | EN 60695-2-12      | °C                | 750                          |
| Euroclass classification               | EN 13501           | -                 | E                            |
| UL                                     | UL 94              | -                 | HB                           |

**trinseo.com**

The principles of Responsible Care® and sustainability influence the production of printed literature for Trinseo S.A. and its affiliated companies. As a contribution towards the protection of our environments, Trinseo's printed literature is produced in small quantities and on paper containing recovered/post-consumer fiber and using 100 percent soy-based ink whenever possible.

#### **Product Stewardship**

Trinseo and its affiliated companies have a fundamental concern for all who make, distribute, and use their products and for the environment in which we live. This concern is the basis for our Product Stewardship philosophy by which we assess the safety, health, and environmental information on our products so that appropriate steps may be taken to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Trinseo products – from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

#### **Customer Notice**

Customers are responsible for reviewing their manufacturing processes and their applications of Trinseo products from the standpoint of human health and environmental quality to ensure that Trinseo products are not used in ways for which they are not suitable. Trinseo personnel are available to answer questions and to provide reasonable technical support. Trinseo product literature, including safety data sheets, should be consulted prior to the use of Trinseo products. Current safety data sheets are available from Trinseo.

No freedom from infringement of any patent owned by Trinseo or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, the customer is responsible for determining whether products and the information in this document are appropriate for the customer's use and for ensuring that the customer's workplace and disposal practices are in compliance with applicable legal requirements. Although the information herein is provided in good faith and was believed to be accurate when prepared, Trinseo assumes no obligation or liability for the information in this document.

#### **NOTICE REGARDING MEDICAL APPLICATION RESTRICTIONS**

TRINSEO REQUESTS THAT CUSTOMERS REFER TO TRINSEO'S MEDICAL APPLICATION POLICY [HTTP://WWW.TRINSEO.COM/MEDICAL.HTM](http://www.trinseo.com/medical.htm) BEFORE CONSIDERING THE USE OF TRINSEO PRODUCTS IN MEDICAL APPLICATIONS. THE RESTRICTIONS AND DISCLAIMERS SET FORTH IN THAT POLICY ARE INCORPORATED BY REFERENCE.

For more information on products, innovations, expertise, and other services available from Trinseo, visit [www.trinseo.com](http://www.trinseo.com), or in the U.S. contact us at +1-855-TRINSEO (+1-855-874-6736).

#### **DISCLAIMER**

TRINSEO MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, IN THIS DOCUMENT; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE (INCLUDING MEDICAL APPLICATIONS) ARE EXPRESSLY EXCLUDED. SINCE THE CONDITIONS AND METHODS OF USE OF THE INFORMATION AND PRODUCTS REFERRED TO ARE BEYOND TRINSEO'S KNOWLEDGE AND CONTROL, TRINSEO DISCLAIMS ANY AND ALL LIABILITY FOR LOSSES OR DAMAGES THAT MAY RESULT FROM RELIANCE ON THE INFORMATION OR USE OF THE PRODUCTS DESCRIBED HEREIN. TRINSEO MAKES NO WARRANTIES, EXPRESS OR IMPLIED, THAT THE USE OF ANY TRINSEO PRODUCT WILL BE FREE FROM ANY INFRINGEMENT CLAIMS.

#### **GENERAL NOTICE**

Any photographs of end-use applications in this document represent potential end-use applications but do not necessarily represent current commercial applications, nor do they represent an endorsement by Trinseo of the actual products. Further, these photographs are for illustration purposes only and do not reflect either an endorsement or sponsorship of any other manufacturer for a specific potential end-use product or application, or for Trinseo, or for specific products manufactured by Trinseo. If products are described as "experimental" or "developmental": (1) product specifications may not be fully determined; (2) analysis of hazards and caution in handling and use are required; (3) there is greater potential for Trinseo to change specifications and/or discontinue production, and (4) although Trinseo may from time to time provide samples of such products, Trinseo is not obligated to supply or otherwise commercialize such products for any use or application whatsoever.

For additional information not covered by the content of this document or to ensure you have the latest version of this document available, please refer to our website at [www.trinseo.com/contact](http://www.trinseo.com/contact).

Follow us at:



Copyright© Trinseo (2021) All rights reserved.  
™Trademark of Trinseo S.A. or its affiliates  
®Responsible Care is a service mark of the  
American Chemistry Council



