



ACRYLITE® Resist Clear Wave Profile Sheet

North American Limited Warranty - 10 Year Light Transmission, 10 Year Hail, 30 Year non-yellowing

POLYVANTIS Sanford LLC warrants that the above product meets the following specifications:

Shape	Wave Profile			
Properties	1.8mm clear	3 mm smooth clear	3 mm textured clear	3 mm prismatic clear
YELLOWNESS				
Yellowness Index				
on delivery	max. 1	max. 1	max. 1	max. 1
up to 10 years	max. 5	max. 5	max. 5	max. 5
up to 30 years	max. 8	max. 8	max. 8	max. 8
LIGHT TRANSMISSION				
Transmittance (TD65)				
on delivery	min. 89%	min. 89%	min. 89%	min. 89%
up to 10 years	min. 86%	min. 86%	min. 86%	min. 86%
up to 30 years	min. 83%	min. 83%	min. 83%	min. 83%
RIGIDITY				
Modulus of Elasticity (E₁)				
on delivery	min. 1,800 MPa	min. 1,800 MPa	min. 1,800 MPa	min. 1,800 MPa
up to 10 years	min. 1,620 MPa	min. 1,620 MPa	min. 1,620 MPa	min. 1,620 MPa
STRENGTH				
Tensile Strength Value (σ_M)				
on delivery	min. 40 MPa	min. 40 MPa	min. 40 MPa	min. 40 MPa
up to 10 years	min. 36 MPa	min. 36 MPa	min. 36 MPa	min. 36 MPa
HAIL RESISTANCE				
up to 10 years	Passes the ACRYLITE® hail simulation test, see details on page 2			



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EXPLANATIONS

YELLOWNESS

The yellowness index, YI, is measured per DIN 5036 on cleaned and polished specimens conditioned in a standardized climate at 23°C and 50% relative humidity. Transmittance is measured through a flat specimen of uniform thickness.

LIGHT TRANSMISSION

The transmittance, TD65, is measured per DIN 5036 on cleaned and polished specimens conditioned to 23°C and 50% relative humidity. Transmittance is measured through a flat specimen of uniform thickness.

RIGIDITY

The modulus of elasticity, Et, is determined by a tensile test according to ISO 527-2/1B/1 at 23°C. The modulus is the average measurement on five type 1B specimens machined from solid plates of the material according to ISO 2818. Specimens are conditioned to 23°C and 50% relative humidity.

STRENGTH

The local max. tensile strength, σ_M , is determined by a tensile test according to ISO 527-2/1B/50. The strength is the average measurement on five type 1B specimens machined from solid plates of the material according to ISO 2818. Specimens are conditioned to 23°C and 50% relative humidity.

HAIL RESISTANCE

POLYVANTIS Sanford LLC only shall be liable for breaks as a direct and exclusive result of impact of hail measuring up to 1 inch in diameter in size (as determined by www.stormsite.com) Except for this warranty, the product is not warranted against breaks due to impact of any other type.

Passing the ACRYLITE® hail simulation test means 4 or less breaks produced by 10 hail simulation shots fired at the wave profile test specimen. A shot is a sphere of PA 66 polyamide with a diameter of 20 mm and an approximate weight of 4.5 g propelled at 21 m/s,

impacting with a kinetic energy of approximately 1 Joule. Tests are performed at 23°C on cleaned specimens with a size of at least 610 x 610 mm (24 x 24 inches). According to an expert, a 1 Joule impact is produced by a typical natural hailstone with a diameter of 23 mm (0.91 inches) dropping at 17 m/s (38 mph).

TERMS OF LIMITED WARRANTY

TERMS OF LIMITED WARRANTY, EXCLUSIONS

The products must have been stored, transported, processed, installed and used in accordance with the requirements of the subject materials. They must not have been thermally formed or exposed to the detrimental effects of harmful chemicals.

DURATION OF LIMITED WARRANTY

This warranty begins with the day of delivery to the purchaser and expires upon deinstallation of the first application, negligent, intentional or willful destruction, or 10 or 30 years, depending on the specifications shown above.

THE FOREGOING IS THE SOLE WARRANTY APPLICABLE TO THE ACRYLITE SHEET DESCRIBED HEREIN, EXPRESS OR IMPLIED. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXPRESSLY EXCLUDED.

The sole liability of POLYVANTIS Sanford LLC in respect of ACRYLITE® sheet shall be the replacement of any sheet found by POLYVANTIS Sanford LLC not to meet this warranty or, at the option of POLYVANTIS Sanford LLC, the refund of the purchase price therefor. POLYVANTIS Sanford LLC shall have no liability under any circumstances for the cost of removal of non-conforming product or the installation of replacement product, or for damage to property, or for indirect, incidental, or consequential damages.

Any claims shall exclusively be determined and governed by the version of this warranty statement valid on the date of purchase of the material in question.



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IN CASE OF A LIMITED WARRANTY CLAIM

Any rights or claims raised hereunder shall be subject to the following:

- The purchaser must present POLYVANTIS Sanford LLC with a bill from the seller showing the name and address of the purchaser, date of purchase, full product type/name and the product quantity so purchased.
- POLYVANTIS Sanford LLC will be permitted access without delay to inspect the product and its potential non-conformance on site, or to have another party do so on our behalf.

CONSUMER RIGHTS, APPLICABLE LAW & JURISDICTION

This warranty does not affect or restrict any rights or claims specifically available to consumers under applicable law. This warranty shall exclusively be governed by and construed under the laws of the State of New Jersey, as applicable on the date of purchase of the goods in question, without giving effect to conflict of laws principles. The exclusive place of jurisdiction for any rights or claims from this warranty shall be New Jersey.

**POLYVANTIS
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**www.polyvantis.com
www.acrylite.co**



Semi-finished polymethyl methacrylate (PMMA) products from POLYVANTIS are sold on the European, Asian, African and Australian continents under the registered trademark PLEXIGLAS®, in the Americas under the registered trademark ACRYLITE®, both owned by Röhm GmbH, Darmstadt, or its affiliates.

This information and all further technical advice is based on our present knowledge and experience. Such information or advice, whether given at Buyer's request or not, implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights. In particular, no warranty, whether expressed or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technical progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products should be used.