

North American Limited Warranty - 10 Year Light Transmission, 10 Year Hail

ACRYLITE® Resist

high impact acrylic multi-skin sheet – colors

Limited Warranty

We warranty the following properties for the above product according to the conditions of this warranty statement:

	16 mm			
	bronze	light white	solar cool white	cool blue white
Light transmission				
Transmittance (τ_{D65})				
typical on delivery	53%	74%	37%	28%
guaranteed on delivery	49%	70%	33%	20%
after 10 years	45%	66%	29%	16%
Rigidity				
Modulus of elasticity (E_1)				
typical on delivery	min 1,800 MPa	min 1,800 MPa	min 1,800 MPa	min 1,800 MPa
after 10 years	min 1,800 MPa	min 1,800 MPa	min 1,800 MPa	min 1,800 MPa
Strength				
Tensile strength value (σ_M)				
typical on delivery	min 40 MPa	min 40 MPa	min 40 MPa	min 40 MPa
after 10 years	min 35 MPa	min 35 MPa	min 35 MPa	min 35 MPa
Hail resistance				
after 10 years	no break	no break	no break	no break

Explanations

Light transmission

Colorless ACRYLITE® has a light transmission when new of up to 92% depending on product type and design. Depending on product type and design, light transmission is only 2-15% lower after 30 years. The transmission factor τ_{D65} is measured as per DIN 5036 on cleaned and polished specimens conditioned in a standardized climate at 23°C/50% RH until equilibrium is reached.

Rigidity

The modulus of elasticity E_t is determined in the tensile test according to ISO 527-2/1B/1 at 23°C as the average value measured on five specimens with parallel faces, which have been conditioned to the equilibrium state in the standard climate of 23°C/50% RH.

Strength

The tensile strength σ_M is determined in the tensile test according to ISO 527-2/1B/50 at 23°C as the average value measured on 5 specimens with parallel faces, which have been conditioned to the equilibrium state in the standard climate of 23°C/50% RH.

Hail resistance

Breakage by hail within the meaning of this guarantee is defined as at least 5 holes at different points in the surfaces of multi-skin or corrugated sheets produced by 10 shots during the hail simulation test described below.

Hail simulation test: Pellets of polyamide PA 66 with a diameter of 20 mm (weight approx. 4.5 g) are propelled against the weathered surface at speed of 21 m/s, corresponding to a kinetic energy of 1 joule, at

room temperature. According to an expert, a natural hailstone of 23 mm (~0.9") in diameter has an average impact velocity of 17 m/s (~56 ft/s), corresponding to a kinetic energy of 1 joule. Furthermore, a hailstone study has established that the average frequency of hailstones of more than 10 mm in diameter is only 2.9%. Hailstones of a greater diameter are less frequent.

Combustion behaviour

Light absorption by smoke is measured acc. to DIN 4101-1 Annex B. ACRYLITE® burns nearly smoke-free, i.e. light absorption by the smoke is < 15%. The acute toxicity of flue gases is measured as per DIN 53436.

Continental North America



Terms of limited warranty

Terms of limited warranty, exclusions

All values shall be determined using cleaned specimens. In case of complex profiles, the measured values shall be determined on flat and plane-parallel specimen, since otherwise the material values cannot be determined with sufficient accuracy. Textured semi-finished goods – only on the more roughly textured side if both sides are textured – must be measured with the textured side facing the light source, at the original thicknesses. 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 moulded or exposed to detrimental effects of harmful chemicals. For information on proper use, care and deployment of our products go to <http://www.acrylitebuildingproducts.com> on the internet and see the relevant print publications.

Duration of limited warranty

This guarantee begins with the day of delivery to the end-user and expires upon deinstallation of the first application, intentional or wilful destruction, or 10 or 30 years from date of purchase. The shortest of the stated time spans applies in each case. Any claims shall exclusively be determined and governed by the version of this guarantee statement valid on the date of purchase of the material in question. The applicable version in each case is found at <http://www.acrylitebuildingproducts.com>.

In case of a limited warranty claim

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

- The user must present us a bill from the seller showing the name and address of the user, date of purchase, full product type/name and the product quantity so purchased.

- The guarantee claim must be submitted to us, during the term of this guarantee, in writing within 30 days.
- We ourselves must without delay be permitted to inspect the defect and its potential cause on site, or to have another party do so on our behalf.

Claims exclusively available hereunder

In case all terms and other conditions hereof are fulfilled such that the user has a valid claim hereunder we will replace the defective ACRYLITE® product ex works. If equivalent replacement material is no longer manufactured by us or can no longer be supplied, the user will receive a refund of the original purchase price. No other or further rights or claims of any kind shall be available hereunder.

Consumer rights, applicable law & jurisdiction

This guarantee does not affect or restrict any rights or claims specifically available to consumers under applicable law. This guarantee shall exclusively be governed by and construed under the laws of Canada, 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 guarantee shall be Canada.

Evonik Cyro Canada Inc.

180 Attwell Drive, Suite 101
Toronto, Ontario M9W 6A9
PHONE +1 888 233-4527



How to Take Care of Your Patio Cover.

by: Doug Woodside, Decks and Patio Covers

Our patio covers are very low maintenance, but even the best low maintenance products require a little care.

Your patio cover is comprised of two very easy to care for products. Acrylic, which is basically the same material as the tail lights on your car, and powder coated aluminum for a structurally sound frame.

To care for your patio cover is easy. Rinsing your patio cover with fresh water from the garden hose regularly is the easiest way to maintain the product.

For annual cleaning just wash it like you would your car. Even though the acrylic has a self cleaning feature, I have found that a more thorough annual cleanings is still necessary to keep your patio cover in the best condition.

Important! Your patio covers self cleaning feature make the surface extremely slick when wet. **Do not stand on your patio cover to clean it.** You could slip and fall.

I recommend you use a long handle RV brush to access the top of your patio cover from a secure position or location and to lightly scrub the top surface using car soap or a mild detergent in a five gallon bucket with water. Let the soap set for a few minutes loosening any pollen and grim then rinse with fresh water from a garden hose.

That's it. Your patio cover is clean, will look fresh, and you will be set to enjoy another year in your awesome outdoor living space.

Decks and Patio Covers | 360-525-3325 | info@decksandpatiocovers.com | www.decksandpatiocovers.com

Trademark notice and legal notice ACRYLITE® is a registered trademark of Evonik Cyro LLC in the Americas. These same products are manufactured and marketed under the PLEXIGLAS® trade name on the European, Asian, African and Australian continents.

January 2013

Evonik Cyro Canada Inc.

180 Attwell Drive, Suite 101
Toronto, Ontario M9W 6A9
Canada

PHONE +1 888 233-4527

www.acrylitebuildingproducts.com

www.evonik.com

www.acrylite.net