

Warranty, December 2022

Exolon® multi UV Onda Corrugated multiwall polycarbonate sheet

10 years warranty against weathering and hail

This warranty covers **Exolon® multi UV Onda** with a sheet thickness ≥ 6 mm.

Warranty statements

1. Exolon® multi UV Onda retains its light transmission

This means that the sheets suffer a maximum loss of light transmission of 8 per cent points within 10 years of delivery. The transmittance is measured on clean, unscratched specimens according to DIN 5036.

2. Exolon® multi UV Onda retains its rigidity

This means that sheets will have a modulus of elasticity of ≥ 2100 MPa after 10 years. This elastic modulus is measured in the tensile test according to ISO 527 at 23°C, as the average value established for 5 specimens with parallel faces which have been conditioned to the equilibrium state in the standard climate of 23°C and 50% RH.

3. Exolon® multi UV Onda does not turn brittle and retains its strength

This means that the sheets have a tensile strength of ≥ 50 MPa after 10 years. This strength is determined in the tensile test according to ISO 527, at 23°C, as the average value established for 5 unscratched specimens with parallel faces which have been conditioned to the equilibrium state in the standard climate of 23°C and 50% RH.

4. Exolon® multi UV Onda will not be broken by hail during the warranty period

Breakage by hail within the meaning of this warranty is defined as at least 5 holes at different points in the surface of the sheets, produced by 10 shots during the hail simulation test described below.

Hail simulation test

Pellets of 6.6 polyamide with a diameter of 20 mm (weight approx. 4.5 g) are shot against the weathered surface at a speed of 21 m/s, corresponding to a kinetic energy of 1 joule, at room temperature.

Note

According to an expertise, a natural hailstone of 23 mm in diameter has an average impact velocity of 17 m/s and 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, e.g. in the Stuttgart area (Germany), is only approx. 2.9%. Hailstones of a greater diameter are even less frequent.

Conditions of warranty

Exolon® multi UV Onda

- have to be stored, transported, fabricated and installed (or used) in a manner that suits the material,
- must not be (adversely) affected by connecting, fastening and sealing elements,
- have to be protected against aggressive chemicals,
- must not be thermoformed,

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Exolon Group. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

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- may only be exposed to the weather on the UV side, not on both sides (e.g. vertical glazing),
- must not be scratched or abraded.

This warranty applies throughout Europe.

Note

For reasons of testing technique it is impossible to establish characteristic material values on complicated profiles with sufficient accuracy. Therefore, specimens with parallel faces are cut out of the skins in the direction of the webs to measure the transmittance, modulus of elasticity and tensile stress at yield. Specimen surfaces obtained by mechanical treatment must be polished.

Applicability

A complaint under this warranty will be considered,

- a) if caused within the warranty period despite demonstrable observance of the conditions of warranty,
- b) if made without delay during the warranty period, and
- c) if an invoice issued by the salesperson is presented, showing the name and address of the buyer, the purchase date, complete product description and number of sheets purchased.

If the complaint is justified, we will replace the material free of charge ex works as stipulated below.

If, for some reason, replacement material cannot be supplied, the customer will be refunded with the original purchase price according to the same pattern. Further claims are ruled out.

Replacement of faulty material		
Period after purchase date	Percentage replaced in	
	case of weathering damage	case of damage by hail
up to 5 years	100 %	100 %
within 6 th year	75 %	50 %
within 7 th year	60 %	40 %
within 8 th year	45 %	30 %
within 9 th year	30 %	20 %
within 10 th year	15 %	10 %

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