



# Limited Product Warranty Makrolon® M5 sheet

## Five year limited warranty

The following terms and conditions constitute the sole warranty made by Covestro (the "Company") regarding Makrolon M5 Sheet (the "Product") to the immediate purchaser of the Product from the Company or its authorized distributor (the "Buyer"). In all cases, the Company's sole liability and the Buyer's sole remedy shall consist of the Company replacing the defective Product or refunding the purchase price, at the Company's option as discussed herein. This warranty shall not apply to any Product improperly installed, maintained or used in an inappropriate application. Failure of the Product due to incomplete or incorrect Buyer-supplied information shall not be warranted. Notwithstanding any other provision in this warranty or elsewhere to the contrary, the Company's liability, for any cause whatsoever, shall not exceed the purchase price of the Product in question. The Company shall not be liable for any special, incidental, indirect or consequential damages of any kind, arising at any time or for any cause whatsoever. In no event shall this warranty cover the cost of removal, reinstallation, transportation and handling, or similar costs. All warranties begin on the date of sale to Buyer. Buyer must notify the Company within 30 days of an alleged defect or this warranty shall be void. This warranty shall not apply unless Buyer returns defective material for evaluation and testing and proof of purchase to The Company prior to the expiration of the warranty.

Subject to the conditions and definitions contained herein, if the Product breaks, exhibits excessive microcracks, or exhibits excessive yellowing, within five (5) years from the date of sale due to a manufacturing defect, then the Buyer, at Covestro's option will receive a free replacement sheet within 30 days or will be refunded the original Product purchase price.

### CONDITIONS

This warranty applies only when the Product is used in glazing that has been fabricated, installed and cleaned in accordance to guidelines published by The Company (available at [www.sheets.covestro.com](http://www.sheets.covestro.com)).

This warranty specifically limits bending of the product during shipping, fabrication and installation to a radius of 20" for 0.060" thick product and 30" for 0.080" thick product. Product experiencing a tighter radius than those noted above is not covered under this warranty as it may induce microcrack development, premature aging and/or an increase in yellowness.

**Breakage:** The Product is tougher than acrylic, impact modified acrylic and clear vinyl and resists impact, abuse, and vandalism. However, no material can be described as unbreakable, for it is impossible to account for all types of usage. The warranty applies if the Product breaks and a sample of the returned Product breaks in a brittle manner (breaks into separate pieces with sharp edges, without plastic deformation) when tested according to ASTM D 3763 modified by the Company.

**Microcracks:** The warranty applies when the abrasion-resistant coating exhibits visible microcracks which were caused by UV degradation resulting in impaired visibility through more than 25% surface area of the subject glazing unit. Microcracks are visible cracks in the coating. Warranted microcracks must have a minimum length of 0.5" with a minimum quantity of 50 / ft2. Microcracks can be seen from a distance of 3' when illuminated from the back side at a 45 degree angle. Microcracks will cause an optical sheen and/or light reflection that inhibits product clarity and passenger visibility.

**Yellowing:** The warranty applies when a sample of the returned Product exhibits a YI increase (from initial manufactured value) of more than 5 during a five-year period from the date of sale when measure per ASTM D1925.

This warranty is limited to excessive microcracks or yellowing due to solar degradation of the Product and does not cover yellowing or light transmission losses due to dirt, atmospheric particulate deposits, abrasion or changes in the physical structure of the Product. Nor does this warranty cover exposure to adverse or hazardous chemical or environmental substances or conditions as determined by the Company. You should be aware that all glazing are subject to irreversible deposits of atmospheric elements and can be expected to show signs of hazing eventually. Regular, proper cleaning will significantly reduce, but not eliminate, that process. This warranty does not cover hazing caused by physical abuse including the failure to clean the Product.

**THE WARRANTIES STATED IN THIS PUBLICATION ARE THE ONLY WARRANTIES MADE BY COVESTRO WITH RESPECT TO THE PRODUCT AND ARE IN LIEU OF ALL WARRANTIES, WRITTEN OR ORAL, STATUTORY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

**NOTICE:** This distributor is authorized to fulfill the above obligations of this warranty to the purchaser at the expense of: Covestro, 119 Salisbury Road, Sheffield, MA 01257.

Customer Name: \_\_\_\_\_

Date of Sale: \_\_\_\_\_

Distributor Name: \_\_\_\_\_

Distributor PO Number: \_\_\_\_\_



119 Salisbury Road  
Sheffield, MA 01257  
Toll Free: 800.254.1707  
Fax: 800.457.3553  
sfdinfo@covestro.com  
**sheets.covestro.com**

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 Covestro.

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.

With respect to health, safety and environment precautions, the relevant Safety Data Sheets (SDS) and product labels must be observed prior to working with our products.