

# MAKROLON® Sheet Performance Warranty



MAKROLON® Sheet Abrasion Resistant (AR) offers the additional benefit of mar resistant coating that is close to the surface hardness of glass. This means that MAKROLON® Sheet AR maintains superior clarity throughout its service life due to the enhanced UV and mar resistant properties of the material. While no polycarbonate sheet can be classified as an absolutely unbreakable material due to misapplication, or improper usage MAKROLON® Sheet AR is warranted against breakage, coating failures, loss of light transmission and excessive yellowing during a period of seven (7) years from the date of purchase. If failure (as described below) occurs within the warranty period, the purchaser will receive a free replacement of MAKROLON® Sheet AR when the failed sheet, original sales receipt and warranty are provided to Bayer MaterialScience Pty Ltd or the original distributor or dealer. Bayer MaterialScience Pty Ltd reserves the right to refund the original purchase price of the sheet in lieu of a replacement.

## CONDITIONS

**Breakage:** MAKROLON® Sheet AR is warranted against breakage for seven years from the date of purchase. This warranty is limited to flat architectural glazing applications installed in frames or sash according to the manufacturer's recommendations as provided in the product literatures. This warranty does not cover any direct or indirectly related expenses for fabrication, installation or other losses, which may result from the breakage, or any there failure of the sheet.

**Abrasion resistance:** MAKROLON® Sheet AR will not show an increase in haze of more than 15% when a sample is tested to ASTM D1044 (Taber Abrader) for 100 cycles with 500 gram load.

**Excessive yellowing:** The increase in YELLOWNESS Index (YI) of MAKROLON® Sheet AR (clear only) will be less than 5% after three years from the date of sale and less than 10% during seven years from the date of sale, when cleaned in accordance with the manufacturer's recommendations. Yellowness Index will be measured per ASTM D1925 with a Hunter Ultrascan spectrophotometer or equivalent. This warranty applies only to clear MAKROLON® Sheet AR. Loss of light transmission: The light transmission of MAKROLON® Sheet AR (clear only) will decrease by not more than 5% during a five year period from the date of sale or by 7% during a 10 year period from the date of sale, when cleaned in accordance with the manufacturer's recommendations. Light transmission will be measured per ASTM D1003 with samples cleaned prior to testing. The warranty applies only to clear MAKROLON® Sheet AR. Coating delamination: MAKROLON® Sheet AR is warranted against coating failure due to delamination or spot flaking. Delamination is defined as loss of adhesion between the hard coat surface and the substrate polycarbonate sheet, visually apparent without

the use of magnification instruments. All transparent materials, including glass are subject to deposits of atmospheric particulate and will exhibit some degree of hazing during their service life. Regular maintenance of MAKROLON® Sheet AR with proper cleaning techniques will significantly reduce, but not eliminate this deposition process.

THIS WARRANTY DOES NOT COVER LOSS OF LIGHT TRANSMISSION OR ABRASION RESISTANCE, YELLOWING OR COATING FAILURE CAUSED BY THE ACCUMULATION OF DIRT, ATMOSPHERIC DEPOSITS, ABRASIONS OR CHANGES IN THE SHEET STRUCTURE, OR EXPOSURE TO ADVERSE OR HAZARDOUS CHEMICAL OR ENVIRONMENTAL SUBSTANCES OR CONDITIONS AS DETERMINED BY THE MANUFACTURER (INCLUDING BUT NOT LIMITED TO THOSE IDENTIFIED IN THE MANUFACTURERS FABRICATION GUIDE).

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OR MERCHANTABILITY OR FITNESS FOR PURPOSE. BAYER MATERIALSCIENCE'S SOLE OBLIGATION AND LIABILITY, AND THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY, IN CONNECTION WITH THIS SHEET OR ITS USE OR APPLICATION, WHETHER BASED ON WARRANTY, CONTRACT, TORT (INCLUDING NEGLIGENCE) OR ANY OTHER LEGAL THEORY, SHALL BE STRICTLY LIMITED TO REPLACEMENT OF THIS SHEET OR, AT BAYER MATERIALSCIENCE'S OPTION, A REFUND OF THE ORIGINAL PURCHASE PRICE OF THIS SHEET. IN NO EVENT SHALL BAYER MATERIALSCIENCE BE LIABLE FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL OR EXEMPLARY DAMAGES.

The remedies provided herein are the purchaser's sole and exclusive remedies. Limited Warranty is to be completed by an authorised MAKROLON® Sheet dealer/distributor on the sale date.

For more information please visit the web site or contact your local Bayer MaterialScience sales office.

Quality  
Endorsed  
Company

ISO 9001

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