



**Subject: Material Certificate Product**

Dear Sirs,

Herewith we declare that Makrolon solid sheets comply with standard "DIN EN ISO 11963" for Polycarbonate sheets: "Plastics Polycarbonate sheets – types, dimensions and characteristics".

All sheets are manufactured at Bayer conform to an internal quality security system and established operational procedures, control procedures and specifications. Selected test methods in accordance to "DIN EN ISO 10350-1" as well as the product standard are regularly used for checking the product properties. Furthermore are we certified to "ISO 9001" and the environmental "ISO 14001" which underline our constant efforts to comply with the highest standards.

Our Makrolon Solid sheets are measured to the latest sound reduction standard DIN EN ISO 140-3 with the following results:

- Makrolon UV 2099 in 10mm : 34 dB
- Makrolon UV 2099 in 12mm : 36dB
- Makrolon UV 2099 in 15mm : 36dB

In response to the questions on the expected long-term life of Makrolon extended UV solid sheets installed in highway noise walls, whilst the Bayer Sheet Europe limited warranties are limited to 10 years from date of purchase for sound legal and fiscal reasons, it is safe to assume, based on over 20 years experience gained on installations in projects in Europe and gained on real world and artificial weathering of Makrolon plastics, would remain serviceable for more the 40 year design life when correct installed, maintained and cleaned two times a year.

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Notes:

- These statements are valid for flat horizontal mounted sheets, without mechanical, chemical or thermal machined or coated sheet surface.
- The information given in this statement is mainly based on measured values of weathering tests. The technical expertise gained from these tests can be used as a hint to the mechanical behavior under application conditions. Environmental effects at place of installation, such as atmospheric pollution or inadmissible mechanical load or deflection, are not considered during the tests.
- The material certificates do not release the purchaser from examining the product on receipt. Any legal binding guarantee regarding certain properties or the fitness for any particular purpose or use cannot be derived there from.

Kind Regards,

Fabrice Albrechts  
Project Manager EMEA  
Semi Finished Products