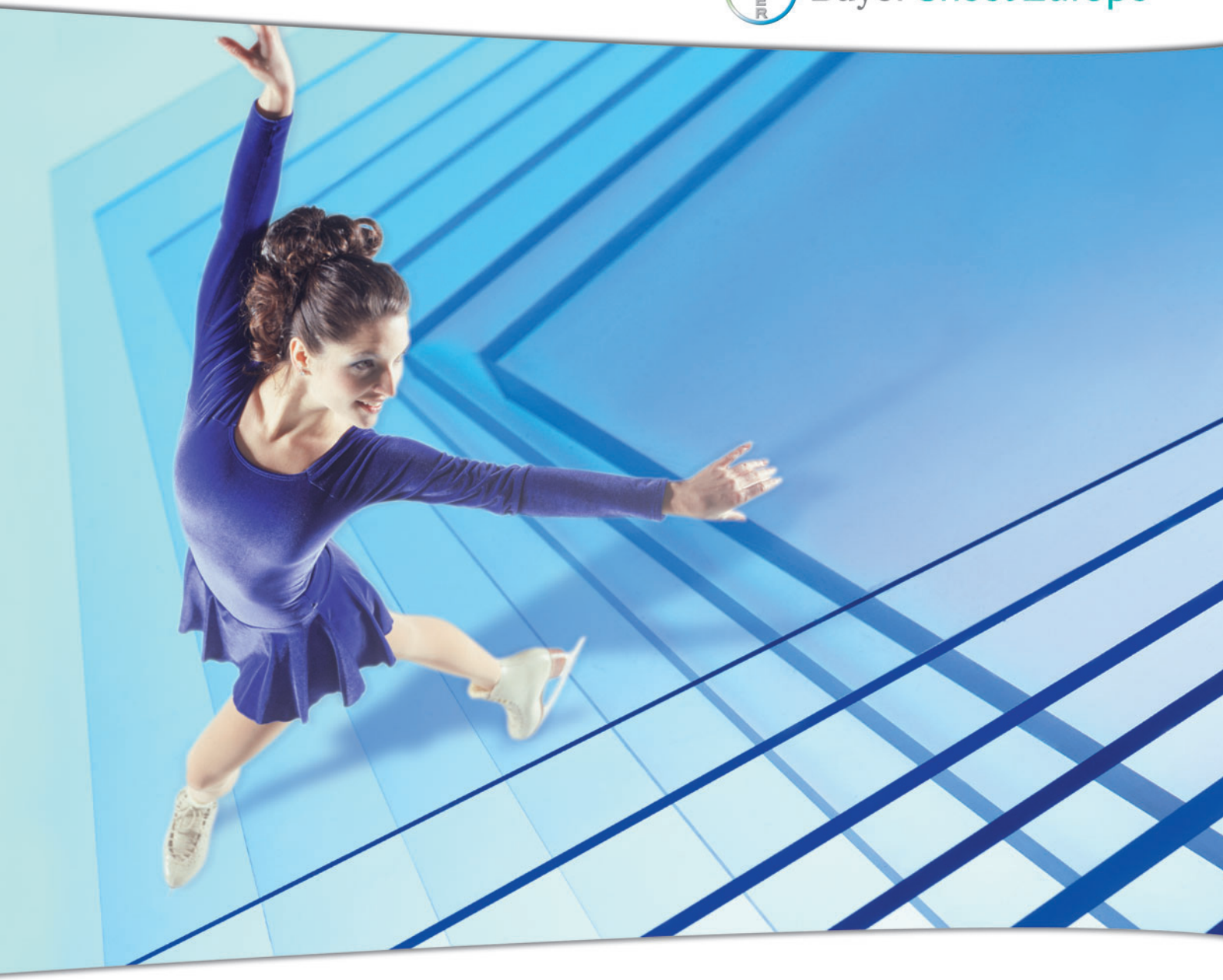
Bayer Sheet Europe



Makrolon® AR –
No trace of scratches.

Bayer Sheet Europe
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BAYER
makrolon®
AR

Makrolon® AR
Always a clear view.

What exactly is Makrolon® AR?

Makrolon® AR stands for particularly hard-wearing UV-resistant sheets made from polycarbonate. Together with the outstanding impact strength of polycarbonate, **Makrolon® AR** offers comparable surface quality to glass. The high resistance to scratches and abrasion on both sides gives **Makrolon® AR** a long service life. We give you a 10-year guarantee of unbreakability and a 5-year guarantee against delamination and weathering.

What are the benefits of Makrolon® AR?

- The sheets are extremely scratch-resistant due to their novel polysiloxane coating.
- Pronounced soiling, such as graffiti, can be removed without any problem.
- The material offers excellent UV resistance.
- **Makrolon® AR** shows superior resistance to chemicals.

Where is Makrolon® AR used?

Their high scratch resistance and impact strength make **Makrolon® AR** sheets the ideal choice for transparent noise barriers, glazing in schools, hospitals, prisons and psychiatric units, as well as for safety glazing in vehicle construction, to name just a few examples. Their chemical resistance means they are ideally suited as sight glasses in machine guards.

What else do you need to know about Makrolon® AR?

Makrolon® AR sheets offer certified quality:

- as a glazing material: they have the maximum impact strength rating according to EN 356 (security glazing, resistance against manual attack).
- as vehicle glazing: examined for compliance with the applicable standards for vehicle glazing, ECE R43 and ABG (Whole Vehicle Type Approval)
- as machine guards: they may also be used in machines exposed to extreme loads, examined in accordance with EN 12415 and EN 12417 (Machine tools – Safety – Machining centres)

of unbreakability
10-year guarantee
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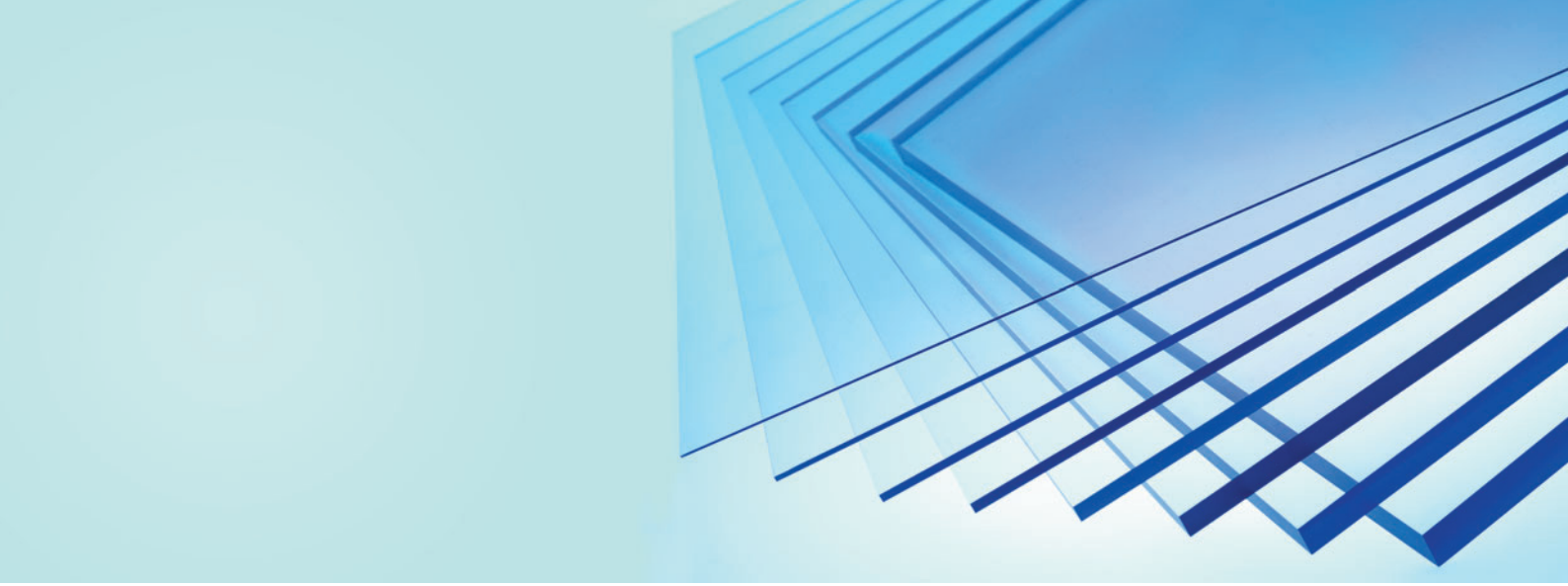

Makrolon® AR
Rely on certified safety.

Impact strength (*):

Standard	thickness	classifcation
EN 356 (security glazing, resistance to manual attack)	4 and 5 mm	EN356-P5A

Vehicle glazing (*):

Standard	thickness	classifcation	number
Allgemeine Bauartgenehmigung (Germany)	3 to 12 mm	Class B	D 2346
ECE R43 (Vehicles, Europe)	3 mm	VIII/B/M	001830
	4 mm	VIII/B/M	001831
	5 mm	VIII/B/M	001832
	6 mm	VIII/B/M	001833
	8 mm	VIII/B/M	001834
	10 mm	VIII/B/M	001835
	12 mm	VIII/B/M	001836

Machine glazing (*):

Standard	thickness	classifcation
EN 12415	6 mm	A1, A2, B1
	8 mm	A1, A2, B1, C1
	10 mm	A1, A2, A3, B1, B2, C1, C2
	12 mm	A1, A2, A3, B1, B2, B3, C1, C2
EN 12415	6 mm	Ec = 478 Nm
	8 mm	Ec = 680 Nm
	10 mm	Ec = 1020 Nm
	12 mm	Ec = 1125 Nm

(*) Certificates are valid for a limited period. Please examine each document for validity.

For further information on Makrolon® AR or other Bayer Sheet Europe products:

Distributor:

ideas, innovative, intelligent, interesting...
Bayer Sheet Europe i-line represents the next generation of quality products. This seal guarantees innovative and intelligent first-class solutions at all times for a multitude of requirements.

Bayer Sheet Europe

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