



Exolon® AR

Guaranteed visibility
whatever the conditions.

Hard coated solid sheets for high-performance applications. **Exolon® AR range**

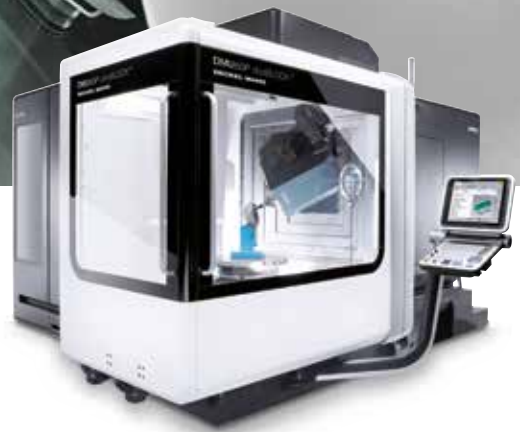


Had enough of scratched panes offering limited visibility?

Time to change the situation. The Exolon® AR product range contains various types of especially abrasion resistant, chemical-resistant and UV-resistant polycarbonate sheets. With outstanding impact resistance, too, these sheets guarantee a surface quality comparable to glass – whilst being highly resistant to scratches and abrasion. Whether for outdoor use, indoor use, curved or flat installation, Exolon® AR solid sheets are especially durable and economical.

We guarantee a service life of 10 years for the sheets' break resistance. Delamination and weather resistance vary depending on the type of sheet and intended application.

Tools commonly used in the metal and wood processing industries are readily used, allowing the sheets to be sawed, milled, drilled and laminated.



Complete clarity at all times –
with maximum safety.

Exolon® – Safety that meets the highest demands

The Exolon® brand stands for an extensive range of premium polycarbonate sheets offering a consistently high quality thanks to the use of excellent raw materials, comprehensive quality management, and production processes certified according to DIN EN ISO 9001. The AR series enables the Exolon Group to provide the right solution for every application. All types have a hard coating on one or both sides, which increases durability, improves UV stability and renders turbidity and yellowing a thing of the past.

Crash test passed –
no splintering, no fracturing.

Exolon® AR – a proven industry standard

Tried and tested for over 30 years, our AR has established itself as an industry standard that guarantees maximum stability and safety – wherever this is required. It is used in everything from transparent sound barriers, automotive panoramic roofs and side windows to housing covers and even complete enclosures for production and process monitoring of machinery in plant engineering settings.

Exolon® AR has an extremely hard polysiloxane coating on both sides, which provides maximum protection against scratches and abrasion. The strong coating means that these solid sheets can only be installed flat and cannot be reshaped or remodelled. The sheets come with a 10-year break resistance plus a 7-year delamination and weather resistance warranty, making them perfect for outdoor use.

Need the sheets to be printed or laminated? Want to combine them with glass? Looking at bullet-resistant security glazing? If required, Exolon® sheets can be provided with single-sided coating for all these applications – simply get in touch with us.

Exolon® AR 5 – a robust alternative

Exolon® AR 5 is the alternative to our industry standard: it can be cold-bent up to 250 times the thickness of the sheet and is also available as a hard coated sheet on one or both sides. Extremely tough, it comes with a 10-year break resistance and a 5-year delamination and weather resistance warranty. This product is best used for interior partition walls, flat glazing systems and protective glazing in schools, hospitals, correctional facilities and psychiatric facilities.

Exolon® AR FO – formable transparency

AR FO can be draped in 2D moulded parts equalling 20 to 30 times the thickness of the sheet. More complex moulds with moderate radii can be created using a vacuum process or by pressure-based deformation. The material can be cold-bent to up to 200 times the thickness of the sheet. There is no need for offline coating processes later on, which saves on subsequent costs and reduces delivery times.

AR FO has a lower UV stability compared to other AR products, making it less suitable for permanent outdoor use. This is why the material has a comparatively short 5-year warranty for delamination and light transmission and is suitable for interior applications. Its properties make it ideal for the production of transparent, curved sheets used in applications such as protective screens, industrial visors and windshields.

Advantages

- Extremely impact-resistant
- DIN EN ISO 23125 classification (depending on type)
International harmonisation with DIN EN 12415
- Scratch-resistant and highly abrasion-resistant
- Weather-resistant (depending on type)
- Clear transparency



A convincing solution
for every task – that's as clear as glass.

No compromise
on the view –
even in uncompromising conditions.

Transparent and safe
with a hard coating.

Exolon® AR



Title: iStock · Police car: KRD Sicherheitstechnik GmbH
Machine protection: DMG MORI · Agricultural machine: Plastrance

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