



Makrolon<sup>®</sup> solid sheet –  
more than just material.



**makrolon<sup>®</sup>**



Bayer AG, Leverkusen Head Office



# Bayer MaterialScience.

## Inspired brilliance.



### **A successful product doesn't just happen.**

The Bayer MaterialScience Sheet Europe network is part of the internationally active Bayer MaterialScience AG, a sub-group of Bayer AG Holding. Years of experience, skills and expertise in the development, production and sales of high-quality polycarbonate sheets come together here.

The Makrolon® brand provides our customers with environmentally-friendly, intelligent, sustainable sheet material solutions of the highest quality standard in accordance with EN ISO 9001. We make not only Makrolon® transparent, translucent solid polycarbonate and multi-wall sheets but also Axpet® polyester sheets, Vivak® co-polyester sheets and Bayloy® and Bayblend® opaque sheet material.

Special diffuser sheets for LEDs and our SilentSound solid sheets for use in soundproof walls as well as other specialities round off our product range. Just ask us about these products. A professional service and ongoing response to customer requirements in a demanding market make Bayer MaterialScience a reliable partner for trade and industry. Whether it is for mechatronics, architecture, exhibitions or shop fitting, Makrolon® supplies plastic sheets for an infinite number of applications.

**Follow the trail of an extraordinary plastic material.**

# Makrolon®

## When exhibitions take shape.



Shanghai Expo 2010, German pavilion, „Floating flakes“, three-dimensionally distorted solid sheets, photo: © Ausstellung Milla & Partner, Architecture Schmidhuber + Kaindl

### **When plain material goes beyond the ordinary.**

Makrolon® – Bayer’s success story revolves around a comprehensive range of first-class polycarbonate sheets made into high-tech quality solid sheets. Makrolon® combines attractive product features that turn imagination into reality – plastic molecules in their true element.

**Be amazed at new product ideas.**



**Convincing benefits:**

- highly impact-resistant
- extremely temperature-resistant
- clearly transparent
- weather-resistant
- abrasion-resistant
- UV-resistant

**Makrolon® – An overview of solid sheets. Just see what's possible.**

Product	Type	Colour	Properties	Thickness in mm
Makrolon® GP	099	clear transparent	standard type	0,75 - 15
	130 150	white translucent		
	775	umbra transparent		
Makrolon® NR	099	clear transparent	non-reflective	1 - 4
Makrolon® Vista QX10	099	clear transparent	optical quality	3 - 12
Makrolon® FC	099	clear transparent	malleable, abrasion-resistant	3 - 8
Makrolon® Titan	099	clear transparent	extremely impact-resistant	18 / 20
Makrolon® AR	8099	clear transparent	abrasion-resistant UV-resistant	3 - 12
	8850	bronze transparent		
Makrolon® UV	2099	clear transparent	UV-resistant 10-year guarantee	2 - 15
	2130 / 2150	white translucent		
	2850	bronze transparent		
	2760	grey transparent		
Makrolon® FR	099	clear transparent	UL94 V0	2 - 12
Makrolon® CC**	2555	blue transparent	less heat transference	2 - 12
	2655	green transparent		
	2755	grey transparent		
	2855	bronze transparent		
Makrolon® SilentSound**	2099	clear transparent	UV-resistant sound-absorbent abrasion-resistant/ UV-resistant	8 - 20
	8099 AR	clear transparent		
Makrolon® DX**	141 warm / 139 cool	white diffuse	LED lighting	1,5 / 3
Makrolon® RX**	144 RX / 147 RX-FR	white opaque	LED lighting	1-4

All sheets are available in your favourite colours depending on the quantity ordered.

\*\* Products have separate documentation. Please ask.



Makrolon® sheets are extremely transparent and are available in a textured version. They also comply with fire protection classifications\*. They are exceptionally easy to work and can be drilled, sawn, milled and hot shaped.

\* Depending on thickness, colour and applications, Makrolon sheets have good fire performance in accordance with national fire regulations in many countries. Polycarbonate sheets may change their fire behaviour due to ageing and weathering.



**Makrolon®**

When safety and aesthetics  
work together.



**Makrolon® GP – universal**  
**Makrolon® NR – non-reflective**  
**Makrolon® Vista – brilliant**  
**Makrolon® FC – formable**



### **The solid sheet material for clear-cut requirements.**

Makrolon® meets the highest requirements in every respect. Whatever the application you have set your mind on, Makrolon® impresses with its transparent material composition and high optical quality. Whether you want something out of this world or are content to keep your feet firmly on the ground, Makrolon® gives you the crystal clarity you need. Makrolon® complies with the most demanding requirements whether it calls for an all round cockpit view, a rear window or panoramic window or whether it's for a basic safety application in fields such as sport and security.

With white goods, the clear, simple high-tech material ensures a flawless visual appearance, and is the first choice for transparent fascia panels on washing machines, dishwashers, cookers, refrigerators and freezers.

**The obvious choice if you want luminosity.**



Makrolon® SilentSound



Photo: DECKEL MAHO Pfronten GmbH



**Makrolon® Titan – unbeatable**  
**Makrolon® AR – abrasion-resistant**

# Makrolon®

## When top industrial performance is required.



### **For maximum safety with unbeatable advantages.**

There is no resistance: even under the toughest conditions Makrolon® demonstrates proven strength and longevity, particularly in industrial production. The toughest Makrolon® solid sheet is the Titan which meets the most rigorous requirements. With its declared C3 classification (DIN EN ISO 23125\*) the high-tech sheet has repeatedly demonstrated its extra shatterproof and scratch-resistant qualities.

In mechatronics Makrolon® is proven for a wide range of tasks. Whether as a full enclosure, cover or inspection window, the high-performance plastic for innovative technology is perfect for customised modern engineering solutions because it is so easy to work.

**Indispensable when a high level of technological convenience is required.**

\* International harmonisation of DIN EN 12415



Deep-drawn Makrolon® UV solid sheet



Makrolon® UV – weather-resistant  
Makrolon® FR – fire-resistant

# Makrolon®

Because beauty  
is always perfectly shaped.




## **For lovely moments.**

Because of its diverse product features, Makrolon® opens all the right doors for architects, exhibition constructors and designers. The high-tech sheet offers inexhaustible potential in design options for room settings, exhibitions, shop fitting, illuminations or visual communication solutions.

Makrolon® is a fantastic drawing board for creative ideas, whether as a projection surface for events and exhibitions, as a translucent roof, interior conversions, light design or as a display. Be inspired by its striking range of uses.

**Indispensable when aesthetics are uppermost in your mind.**



Advice and delivery by:



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