

**PLEXIGLAS®**  
**FOR FURNITURE**  
**AND INTERIORS**  
CREATED TO  
MAKE YOUR  
DESIGN SHINE.



**PLEXIGLAS®**   
An Evonik brand.

You meet  
PLEXIGLAS®  
every day,  
all your life.





# **PLEXIGLAS®**

## DESIGN VERSATILITY AND OPTIMAL FABRICATION OPTIONS

**IT PROVIDES A CLEAR VIEW, LENDS SHAPE AND BRILLIANCE TO A VARIETY OF OBJECTS, PROTECTS AGAINST RAIN, HAIL, AND STORMY WEATHER, WITHSTANDS EXTREME PRESSURE AND STRONG UV RADIATION, IS BREAK RESISTANT, AND FAITHFULLY REFLECTS THE WORLD IN ALL ITS COLOR.**

The positive, versatile properties of PLEXIGLAS® allow its usage in all spheres of life. The unique advantages of the material are particularly evident in vertical applications such as furniture front panels or wall claddings.

This is why PLEXIGLAS® is often used in bathrooms and kitchens as well as for shop and interior fittings.



## **PLEXIGLAS® COMBINES THE IDEAL REQUIREMENTS FOR INDIVIDUAL DESIGN:**

- Light weight
- Break resistance
- Durability
- UV-resistance
- Sophisticated appearance
- Large formats for greater design versatility
- Simple and versatile fabrication and installation
- High functionality of possible coatings

# TECHNICAL DATA

Physical properties (clear, thickness 3mm)	Test standard	Unit	PLEXIGLAS® Optical hard coated (HC)	Uncoated acrylic sheet
<b>Mechanical properties</b>				
Tensile strength	DIN EN ISO 527	MPa	67.5	72
Modulus of elasticity	DIN EN ISO 527	MPa	3450	3300
Charpy impact strength	DIN EN ISO 527	kJ/m²	10	15
<b>Optical properties</b>				
Light transmission	DIN 5036	%	92	92
Yellowness index	DIN 5036	%	< 0.5	< 0.5
<b>Thermal properties</b>				
Vicat softening point	ISO 306 method B50	°C	106	103
Flame resistance	DIN 4102		B2	B2
	DIN EN 13501		E	E
Toxicity	AITM 3.0005		Meets requirements	Meets requirements
Smoke density	AITM 2.0007/ FAR 25.853		Meets requirements	Meets requirements
<b>Abrasion resistance of coating</b>				
Taber abrasion (100 cycles, 4.9N, CS-10F)	ISO 9352	% Haze	< 3	20–30
Falling sand test	DIN 52348	cd/ (lx·m²)	2.3	22
Pencil hardness	DIN EN 13523-4		5H	2H
Adhesion	DIN EN ISO 2409		GT 0	–

Further typical data is available in the brochure Technical Information of PLEXIGLAS® GS/XT (211-1)



# EXPERIENCE CUTTING-EDGE TECHNOLOGY, FABRICATION AND DESIGN WITH PLEXIGLAS®



## **PLEXIGLAS® Optical HC**

is our clear acrylic sheet that is equipped with an abrasion- and chemical-resistant coating on one side which is applied by a patented process, directly during the production of the sheet. This provides a particularly sophisticated visual appearance as well as a reliable and hard-wearing functional coating. **PLEXIGLAS® Optical HC** offers a wealth of creative possibilities in designs that could be applied in, for example, screen printing or digital printing processes. The homogeneity of the coating thickness allows a particularly uniform appearance in back printing. The coated surface is ideal for demanding applications exposed to heavy wear and requiring frequent cleaning.



## **PLEXIGLAS® Hi-Gloss**

is a coextruded acrylic sheet with a striking depth perception effect, achieved by a clear, high-gloss layer of acrylic and a colored acrylic base that are fused directly during production. It can adapt particularly well to fluctuating temperatures up to 70°C and to extreme variations in atmospheric humidity.

**PLEXIGLAS® Hi-Gloss** can be installed directly on the wall or as composite material.



## **PLEXIGLAS® Reflections**

makes mirror surfaces break resistant. In this product the familiar attractive visual appearance of **PLEXIGLAS®** is combined with a reflective mirror surface coating on the rear. The coated version, which is resistant to abrasion and chemicals, provides the surface with additional protection against mechanical stress and cleaning marks. Applied on a stable carrier layer, **PLEXIGLAS® Reflections** offers a perfect image of its surroundings.



#### **PLEXIGLAS® UV 100 (AR)**

is well known in the area of picture glazing. Thanks to its specially enhanced UV impermeability, even exhibits like historical manuscripts are protected from optical aging. As glazing for pictures or showcase construction, as well as sheets that can be directly back-printed, the material shows its advantages—in high-gloss or anti-glare variants. The high-gloss variant can also be chosen with a coating providing resistance to abrasion and chemicals in order to protect the surface against wearing and cleaning marks.



#### **PLEXIGLAS® Satinice**

is available with a single- or double-sided matte surface and in transparent or translucent variants, making it a versatile design element. Whether used as a room divider or applied on existing walls and surfaces, **PLEXIGLAS® Satinice** captivates with its variety of colors and particularly attractive tactile properties. In combination with light, variants that are optimally adapted for particular light sources such as LEDs are shown off to best advantage.



#### **PARAPAN®**

stands out, and not only as a brand name for this particularly high-grade, solid colored, cast acrylic. It allows complete cabinet doors to be fabricated from a single **PARAPAN®** sheet—"all of a piece," so to speak. Incorporations of finger pulls or cup holes for the fittings required can be designed particularly elegantly and individually.

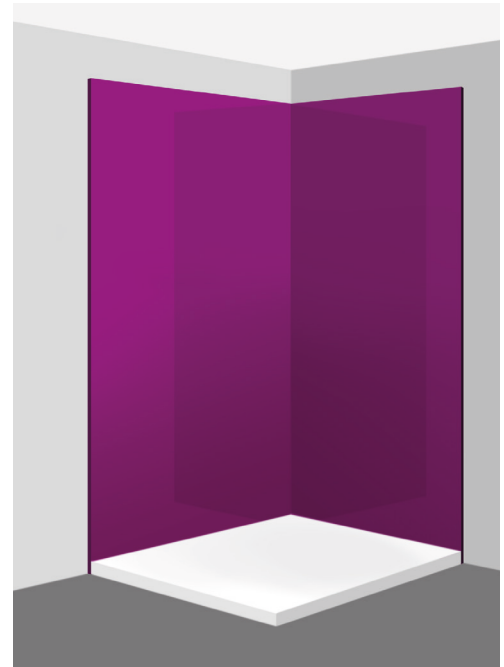
# PLEXIGLAS® AS WALL COVERING SEAMLESS, LARGE-FORMAT, HIGH-QUALITY.



When the material needs to be break-resistant, very light compared to glass and tiles, and durable, **PLEXIGLAS®** is the optimal choice. Whether as panels for renovation, even over existing tiles, or as a completely new solution, **PLEXIGLAS®** shines. In the office, for example, **PLEXIGLAS® Optical HC** scores as a writable wall covering. Whether single-color, ready-to-use **PLEXIGLAS® Hi-Gloss** or infinitely customizable **PLEXIGLAS® Optical HC**, our sheeting offers you the right solution for every vertical surface.





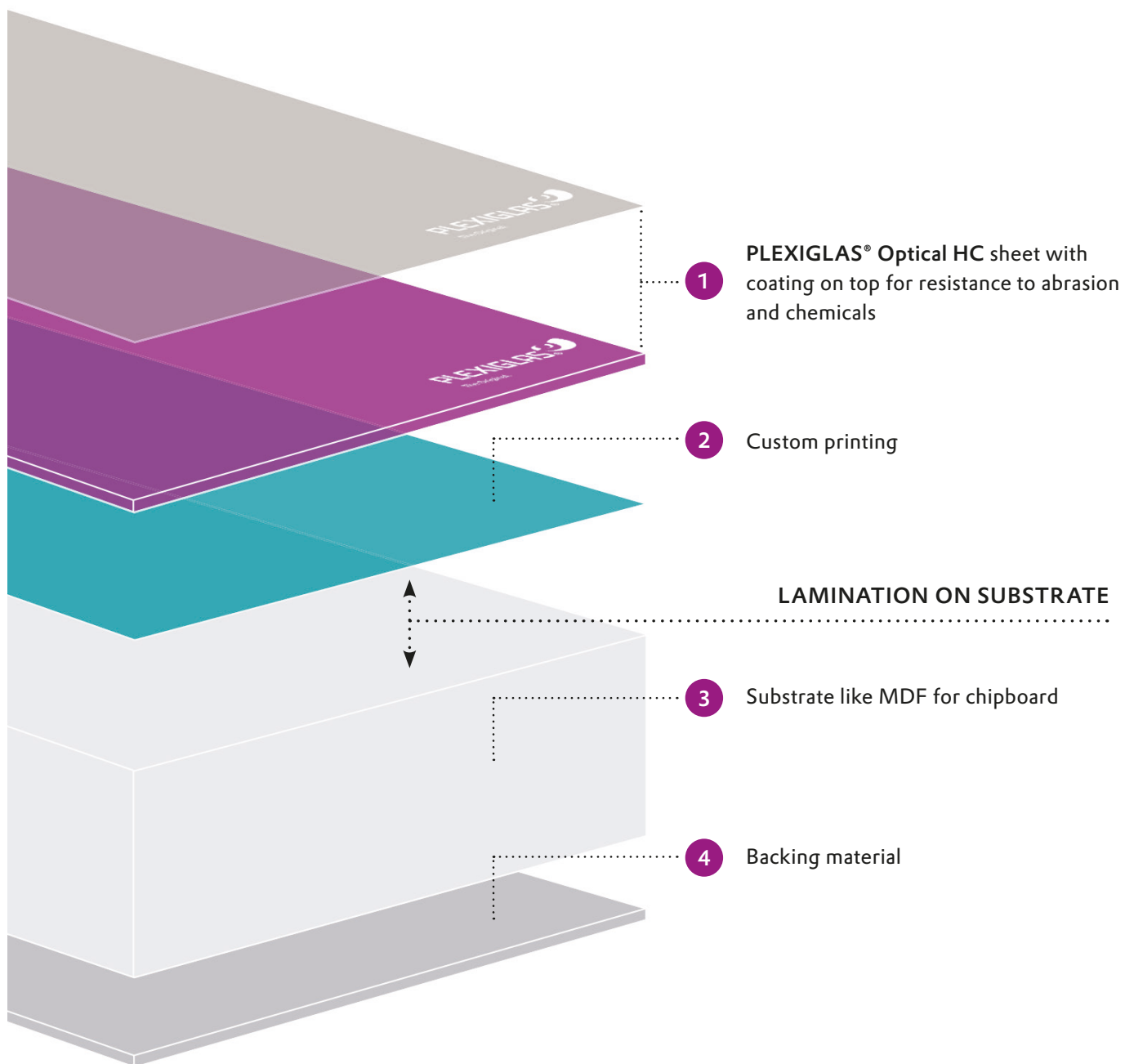


Known for its various machining options, it's only logical that **PLEXIGLAS®** should also be well suited for lamination on typical substrate materials for furniture paneling such as MDF. This gives you the opportunity to combine the excellent visual properties and durability of **PLEXIGLAS®** with your own furniture design. In the case of **PLEXIGLAS® Optical HC** users get the benefit of the abrasion- and chemical-resistant surface coating. Additionally, the good printability of the material means that all designs and color variants are available to you. The degree of gloss and the effect of depth of the material are excellent, as confirmed by the typical tests performed in the industry (such as IHD-W- 466, class 1, tested for **PLEXIGLAS® Optical HC**).

**PARAPAN®** offers the alternative for creating unique front panels from a single solid-colored, high-quality piece of acrylic, including finger pull bars and cup holes.

## **PLEXIGLAS® IN FURNI- TURE FRONT PANELS. SHINY, RESISTANT, SOPHISTICATED.**





**POSSIBLE STRUCTURE OF A FURNITURE FRONT PANEL WITH PLEXIGLAS® OPTICAL HC**

° = Registered Trademark

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