CRYLUX™

PRODUCT GUIDE

Signage, construction and even furniture. So versatile.

3A COMPOSITES | POLYCASA

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FOR PLASTICS
AND COMPOSITES

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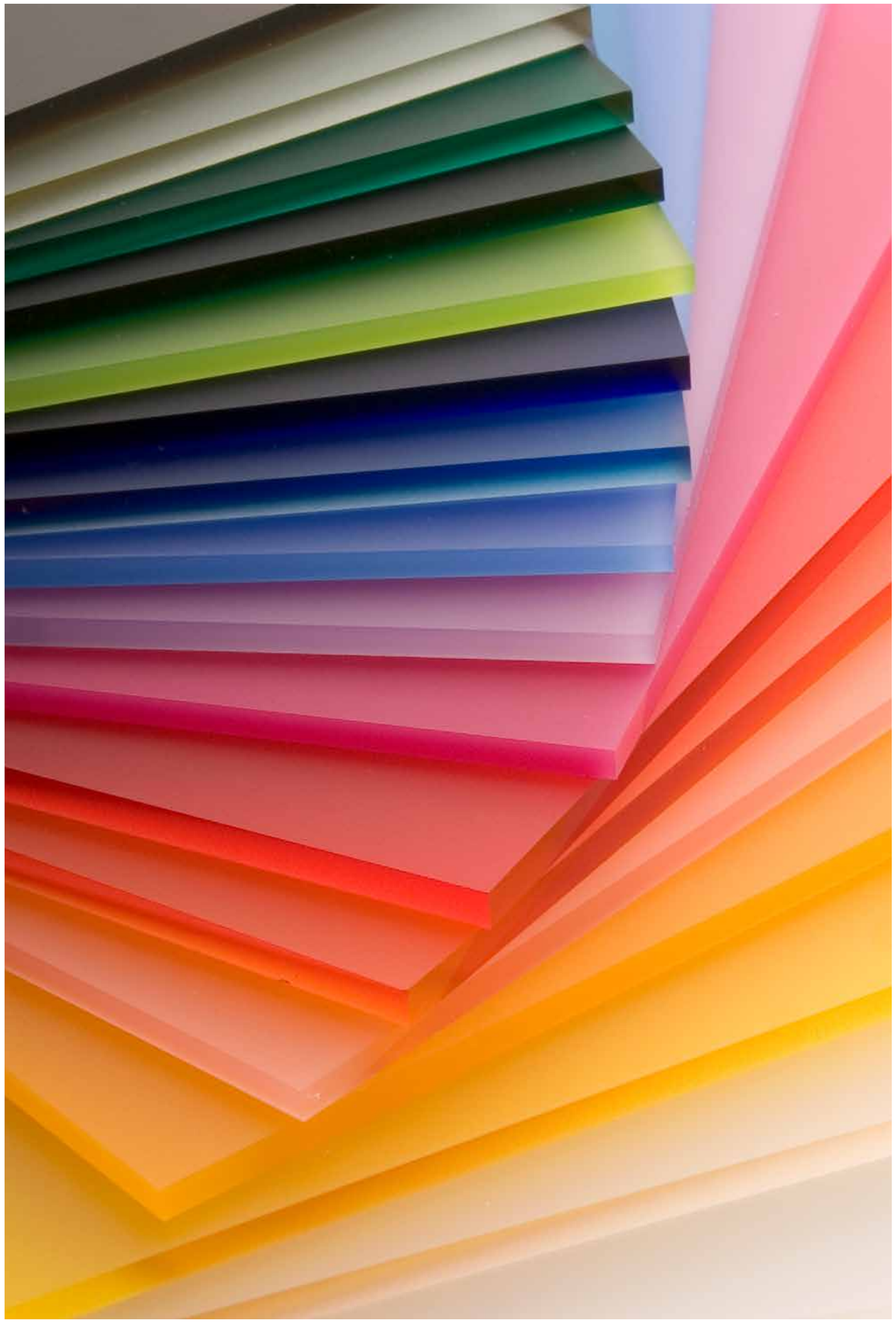

CRYLUX™

Thanks to its high transparency, durability and UV stability, acrylic glass (PMMA) is the perfect choice when looks are what counts.

CRYLUX™ is one of the most visually attractive plastics and offers a wide range of cast acrylic sheets, which are available in coloured, opaque, matt, transparent or translucent design.

The sheets offer a variety of applications thanks to

- perfect transparency for displays.
- lively, vibrant colours for company signs or shop fittings.
- high impact strength in the construction industry.
- simple processing options for individual pieces of furniture.

CRYLUX™ is available not only in standard thicknesses from 2 to 35 mm, but also in blocks with up to 100 mm thickness. It is suitable for cutting and can be used among other things in deep sea vehicles and aquaria, where enormous pressure requires the highest product performance. In addition to an extensive range of standard colours, **CRYLUX™** is also available in a variety of special products (**CRYLUX™ & COLOURS**, **CRYLUX™ & LIGHT**, **CRYLUX™ & PROTECT**). On request, we can even develop colours for your specific project.

CRYLUX™ sheets are made according to strict environmental and quality controls in line with the IPPC guidelines. This ensures consistent product quality. The sheets can be completely recycled using a pyrolysis process. The recycled raw material can be returned to the manufacturing cycle to produce new sheets.

CRYLUX™ PMMA sheets also fulfil the requirements of the current European Union's chemicals regulations (REACH). **CRYLUX™** sheets, in particular, are free of any of the substances which are listed as being "Substances of Very High Concern" (SVHC) in the current version of the ECHA, e.g. silicone or halogen.

What is more, the production site adheres to a sustainability programme which has succeeded in reducing electricity and gas consumption by more than 40% and water consumption by 70% in the last ten years.

CRYLUX™

CAST ACRYLIC IN LIVELY, VIBRANT COLOURS

CHARACTERISTICS

- Optical transparency (93% light transmission for transparent sheets)
- High impact resistance
- Lighter than glass of the equivalent thickness
- UV-resistant
- Good thermal stability
- Low water absorption
- Easy to handle
- Perfect transparency for displays
- Broad thickness range (2 to 100 mm)
- Wide range of standard and special colours

APPLICATIONS

- Company signs
- Neon signs
- Shop fittings
- Individual furniture
- Displays
- Sanitary Fittings
- Gift articles
- Solariums
- Boat building
- Deep sea vehicles
- Aquaria
- Projection screens
- Skylights
- Barrel vaults
- Partitions
- Doors

PROCESSING

- Printing
- Laminating
- Sawing
- Drilling
- Thread cutting
- Milling
- Laser and water jet cutting
- Polishing
- Bonding
- Welding
- Hot bending
- Thermoforming
- Tempering

GENERAL			
Property	Method	Unit	CRYLUX™
Density	ISO 1183-1	g/cm³	1.19
Water absorption 24h/23°C	ISO 62 Method 1	%	0.2
Rockwell Hardness	ISO 2039-2	M-Scale	105
MECHANICAL			
Property	Method	Unit	CRYLUX™
Tensile strength	ISO 527-2	MPa	75
Elongation at break	ISO 527-2	%	6
Tensile modulus	ISO 527-2	MPa	3300
Flexural strength	ISO 178	MPa	125
Flexural modulus	ISO 178	MPa	3000
Impact strength Charpy unnotched	ISO 179-1	kJ/m²	18
Impact strength Charpy notched	ISO 179-1	kJ/m²	2
THERMAL			
Property	Method	Unit	CRYLUX™
Vicat temperature (B 50)*	ISO 306	°C	110
Heat deflection temperature (A)	ISO 75-2	°C	105
Specific heat capacity	ISO 3146-C-60°C	J/gK	2.16
Linear thermal expansion α	ISO 11359-2	mm/m °C	0.07
Thermal conductivity	DIN 52612	W/mK	0.19
Service temperature continuous use		°C	80
Max. temperature short term use		°C	90
Degradation temperature		°C	>280
Sheet forming temperature range		°C	140-190
OPTICAL			
Property	Method	Unit	CRYLUX™
Light transmission	ISO 13468-1	%	93
Refractive index	ISO 489	n^{D}_{20}	1.492
ELECTRICAL			
Property	Method	Unit	CRYLUX™
Surface resistivity	IEC 60093	Ω	$>10^{14}$
Volume resistivity	IEC 60093	Ω x m	$>10^{15}$
Electrical strength	IEC 60243-1	kV/mm	10
Dielectric strength	IEC 60243-1	kV/mm	30
Dielectrical dissipation factor 50 Hz	DIN 53483-2		0.06
Dielectrical dissipation factor 1 KHz	DIN 53483-2		0.04
Dielectrical dissipation factor 1 MHz	DIN 53483-2		0.02
Relative permittivity 50 Hz	DIN 53483-2		2.7
Relative permittivity 1 KHz	DIN 53483-2		3.1
Relative permittivity 1 MHz	DIN 53483-2		2.7

* = Pre-treatment: 16 h at 80°C
Note: These technical data of our products are typical ones; the actually measured values are subject to production variations.

CRYLUX™ - clear

COLOUR		FEATURE	LT	SIZE (mm)	SHEETS PER PALLET													
					THICKNESS (mm)													
CRYLUX™ - clear					2	2.5	3	4	5	6	8	10	12	15	20	25	30	35
	Clear 1000	FLS	93%	3050 x 2030	60	50	40	30	25	20	15	10	10	8	6	5	4	
				2030 x 1520	120	100	80	60	50	40	30	20	20	16	12	10	8	
				3000 x 2000														3
				3000 x 2000														6
	Clear 1000	MAT	91%	3050 x 2030			40	30	25	•	15	10	•	•	•	•	•	
	Clear 1000	UVT	93%	3050 x 2030			40	•	25	•	•	•	•	•	•	•	•	

CRYLUX™ special conditions: Other thicknesses, colours and patterns can be produced to order, but are subject to special conditions (minimum order quantities, production lead times and price surcharge).

FLS = double-sided glossy, MAT = single-sided matt, UVT = partially transparent to UV light
LT = Light transmission (Figures apply to 3 mm sheet thickness only.)
• = Non standard products are available in our product offer but subject to special conditions and minimum order quantities.
Products having a number of sheets per pallet in the table are available on stock.

CRYLUX™ - transparent colour

COLOUR		FEATURE	LT	SIZE (mm)	SHEETS PER PALLET											
					THICKNESS (mm)											
CRYLUX™ - transparent colour					3	4	5	6	8	10	12	15	20	25	30	35
	Yellow 1201	FLS	61%	3050 x 2030	40	•	•	•	•	•	•	•	•	•	•	•
	Orange 1303	FLS	40%	3050 x 2030	40	•	•	•	•	•	•	•	•	•	•	•
	Brown 1433	FLS	57%	3050 x 2030	40	30	25	20	15	10	•	•	•	•	•	•
	Green 1504	FLS	28%	3050 x 2030	40	•	•	•	•	•	•	•	•	•	•	•
	Red 1617	FLS	19%	3050 x 2030	40	•	•	•	•	•	•	•	•	•	•	•
	Blue 1819	FLS	22%	3050 x 2030	40	•	•	•	•	•	•	•	•	•	•	•
	Blue 1861	FLS	51%	3050 x 2030	40	30	25	20	15	10	•	•	•	•	•	•
	Blue 1875	FLS	72%	3050 x 2030	40	30	25	20	15	10	•	•	•	•	•	•
	Grey 1917	FLS	18%	3050 x 2030	40	•	•	•	•	•	•	•	•	•	•	•
	Brown 1923	FLS	26%	3050 x 2030	40	30	25	20	•	•	•	•	•	•	•	•
	Grey 1961	FLS	43%	3050 x 2030	40	30	25	20	15	10	•	•	•	•	•	•

CRYLUX™ special conditions: Other thicknesses, colours and patterns can be produced to order, but are subject to special conditions (minimum order quantities, production lead times and price surcharge).
Production of the material thickness 35 mm in format 3000 x 2000 mm.

FLS = double-sided glossy
LT = Light transmission (Figures apply to 3 mm sheet thickness only.)
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Products having a number of sheets per pallet in the table are available on stock.
The colours printed may vary from the original. To ensure exact colour matching please ask for a colour sample.

CRYLUX™ - translucent

COLOUR		FEATURE	LT	SIZE (mm)	SHEETS PER PALLET								
					THICKNESS (mm)								
CRYLUX™ - translucent					3	4	5	6	8	10	12	15	20
	Cream 4108	FLS	17%	3050 x 2030	•	•	•	•	•	•	•	•	•
	Yellow 4201	FLS	22%	3050 x 2030	40	30	•	•	•	•	•	•	•
	Yellow 4203	FLS	21%	3050 x 2030	40	•	•	•	•	•	•	•	•
	Yellow 4218	FLS	22%	3050 x 2030	40	•	•	•	•	•	•	•	•
	Orange 4317	FLS	17%	3050 x 2030	40	30	•	•	•	•	•	•	•
	Green 4503	FLS	3%	3050 x 2030	40	•	•	•	•	•	•	•	•
	Green 4517	FLS	11%	3050 x 2030	40	•	•	•	•	•	•	•	•
	Red 4606	FLS	15%	3050 x 2030	40	30	•	•	•	•	•	•	•
	Red 4629	FLS	10%	3050 x 2030	40	30	•	•	•	•	•	•	•
	Ice Blue 2819	FLS	11%	3050 x 2030	40	30	•	•	•	•	•	•	•
	Blue 4814	FLS	12%	3050 x 2030	40	•	•	•	•	•	•	•	•
	Blue 4860	FLS	4%	3050 x 2030	40	•	•	•	•	•	•	•	•

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CRYLUX™ - opaque

COLOUR		FEATURE	LT	SIZE (mm)	SHEETS PER PALLET										
					THICKNESS (mm)										
CRYLUX™ - opaque					3	4	5	6	8	10	12	15	20	25	30
	White 3014	opaque	5%	3050 x 2030	40	30	25	20	15	10	•	•	•	•	•
	Black 3945	opaque	<1%	3050 x 2030	40	30	25	20	15	10	•	•	•	•	•
	Brown 3420	opaque	<1%	3050 x 2030	40	•	•	•	•	•					
	Grey 3924	opaque	<1%	3050 x 2030	40	•	•	•	•	•					

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Products having a number of sheets per pallet in the table are available on stock.
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CRYLUX™ - opal

COLOUR		FEATURE	LT	SIZE (mm)	SHEETS PER PALLET										
					THICKNESS (mm)										
CRYLUX™ - opal					3	4	5	6	8	10	12	15	20	25	30	35
	Ice White 2000	opal	71%	3050 x 2030	40	30	25	20	15	10	•	•	•	•	•	•
	Ice White 2013	opal	68%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	4	•
	White 4000	opal	41%	3050 x 2030	40	30	25	20	•	•	•	•	•	•	•	•
	White 4005	opal	37%	3050 x 2030	40	30	25	20	•	•	•	•	•	•	•	•
	White 4018	opal	52%	3050 x 2030	40	30	25	•	•	•	•	•	•	•	•	•
	White 4029	opal	30%	3050 x 2030	40	30	25	20	•	•	•	•	•	•	•	•

CRYLUX™ special conditions: Other thicknesses, colours and patterns can be produced to order, but are subject to special conditions (minimum order quantities, production lead times and price surcharge).
Production of the material thickness 35 mm in format 3000 x 2000 mm.

LT = Light transmission (Figures apply to 3 mm sheet thickness only.)
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Products having a number of sheets per pallet in the table are available on stock.

CRYLUX™ - blocks

COLOUR		FEATURES	SIZE (mm)	SHEETS PER PALLET						
				THICKNESS (mm)						
CRYLUX™ - blocks				40	45	50	60	70	80	100
	Clear 1000	FLS/ARD/MAT	2050 x 1330	•						
			2020 x 1320		•	•	•			
			2000 x 1300					•	•	•
			1300 x 1000	•	•	•	•	•	•	•
	Transparent Green 1502	FLS/ARD/MAT	2050 x 1330	•						
			2020 x 1320		•	•	•			
			2000 x 1300					•	•	•
			1300 x 1000	•	•	•	•	•	•	•
	Transparent Blue 1875	FLS/ARD/MAT	2050 x 1330	•						
			2020 x 1320		•	•	•			
			2000 x 1300					•	•	•
			1300 x 1000	•	•	•	•	•	•	•
	Black 3945	FLS/ARD/MAT	2050 x 1330	•						
			2020 x 1320			•	•			
			1300 x 1000	•		•	•			

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FLS = double-sided glossy, ARD = double-sided matt, MAT = single-sided matt
• = Non standard products are available in our product offer but subject to special conditions and minimum order quantities.
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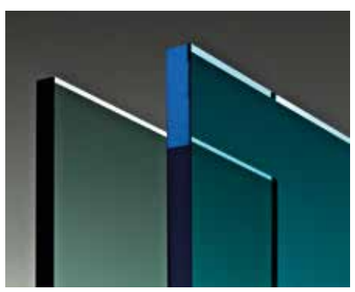
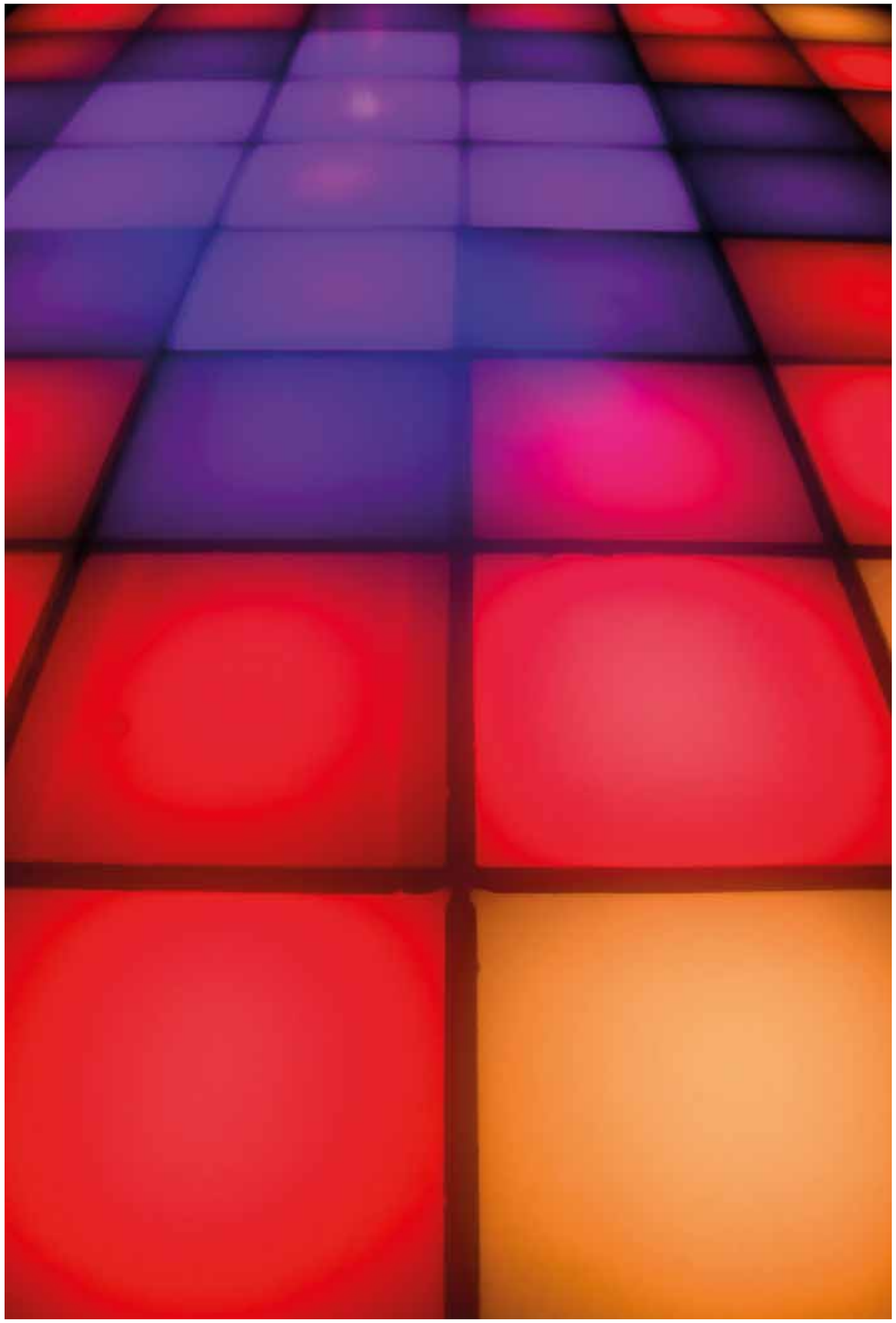




COLOURS

The product line **CRYLUX™ & COLOURS** offers a wide range of different surfaces and colours for sophisticated design applications, which attract attention and thereby create a feeling of spaciousness.

Special features, such as the light transmission, high brilliancy, low weight or the good processing characteristics offer a lot of scope for creativity.

The application field of **CRYLUX™ & COLOURS** includes booth construction, interior design, promotion, high-quality shop fitting, furniture and luxurious POS/POP displays, among others.

CRYLUX™ Argenta

SPARKLING COLOURED FRONT SIDE AND METALLIC, SILVER OPAQUE REVERSE SIDE

Special colours and characteristics ensure that the product range **CRYLUX™ Argenta** stands out from other material with a unique sparkling look, creating a fascinating depth effect that guarantees your attention.

The two different surfaces offer many creative solutions in the visual area: The front side is sparkling coloured and is characterised by a gloss and depth effect, while the metallic silver reverse side is equipped with an opaque appearance.

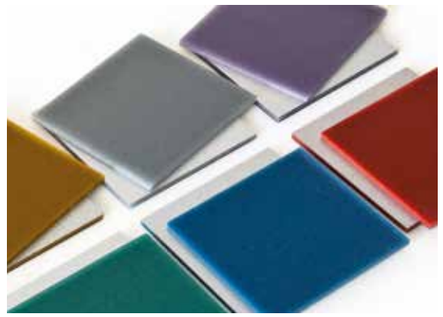
CRYLUX™ Argenta is specially suitable for the high-end sector by implementing innovative interior design concepts using its various manufacturing and surface processing methods, including thermoforming.

CHARACTERISTICS

- Two different surfaces:
  Front side (sparkling coloured with a gloss depth effect)
  Reverse side (metallic silver, opaque appearance)
- Unique sparkling look
- Fascinating depth effect
- Special visual characteristics
- Easy to handle

APPLICATIONS

- Luxurious POS/POP displays
- High-quality shop fittings
- Interior design (restaurants, casinos, museums, flagship stores)
- Booth construction
- Furniture
- Promotion
- Lighting
- Interior fittings for mobile homes and yachts



PROCESSING

- Printing
- Laminating
- Sawing
- Drilling
- Thread cutting
- Milling
- Laser cutting
  (on the coloured front side)
- Polishing
- Bonding
- Welding
- Hot bending
- Thermoforming
- Tempering

COLOUR		FEATURE	LT	SIZE (mm)	SHEETS PER PALLET
					THICKNESS (mm)
CRYLUX™ Argenta					3
	Grey 6010	ARGENTA	0-1%	3050 x 2030	•
	Gold 6210	ARGENTA	0-1%	3050 x 2030	•
	Red 6610	ARGENTA	0-1%	3050 x 2030	•
	Green 6510	ARGENTA	0-1%	3050 x 2030	•
	Violet 6710	ARGENTA	0-1%	3050 x 2030	•
	Blue 6810	ARGENTA	0-1%	3050 x 2030	•
	Black 6910	ARGENTA	0-1%	3050 x 2030	•

CRYLUX™ special conditions: Other thicknesses, colours and patterns can be produced to order, but are subject to special conditions (minimum order quantities, production lead times and price surcharge).

LT = Light transmission (Figures apply to 3 mm sheet thickness only. Light transmission up to an average of 30 to 35% (depending on colour reference) can be gained by thermoforming the material.)

• = Non standard products are available in our product offer but subject to special conditions and minimum order quantities.

Due to inner composition and production process, material has a certain particle orientation. This results in a colour, which has different colour shades depending on visual angle.

The colours printed may vary from the original. To ensure exact colour matching please ask for a colour sample. Subject to technical changes.

CRYLUX™ Neon

EYE-CATCHING, FLUORESCENT COLOURS

The product range **CRYLUX™ Neon** is characterised by the high brightness, combined with an excellent light transmission and low weight. By trendy strong colours, each application is put in perspective through the necessary dash of liveliness.

Five fluorescent colours are available: a refreshing yellow, a bright orange, a vibrant green, a bold red and an invigorating blue. With these colours inspiring creativity and conveying a feeling of optimism, they will particularly appeal to everyone from designers and architects, through to product display builders and exhibition stand designers.

CHARACTERISTICS

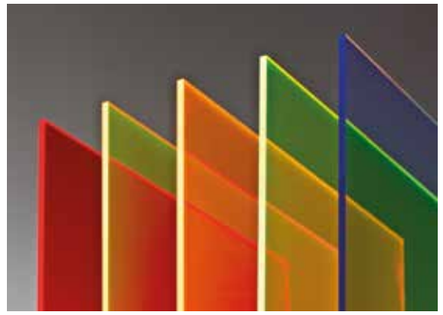
- Eye-catching, fluorescent colours
- Intensive color brilliance
- Good impact strength
- Low weight
- Excellent light transmission

APPLICATIONS

- Displays
- Signs
- Decoration
- Lighting
- Fashion
- Shop fitting
- Furniture
- Advertising
- Interior design

PROCESSING

- Printing
- Laminating
- Sawing
- Drilling
- Thread cutting
- Milling
- Laser and water jet cutting
- Polishing
- Bonding
- Welding
- Hot bending
- Thermoforming
- Tempering



COLOUR		FEATURE	SIZE (mm)	SHEETS PER PALLET								
				THICKNESS (mm)								
CRYLUX™ Neon*				3	4	5	6	8	10	12	15	20
	Yellow 1271	FLS	3050 x 2030	40	•	•	•	•	•	•	•	•
	Orange 1371	FLS	3050 x 2030	40	•	•	•	•	•	•	•	•
	Green 1571	FLS	3050 x 2030	40	•	•	•	•	•	•	•	•
	Red 1641	FLS	3050 x 2030	40	•	•	•	•	•	•	•	•
	Blue 1871	FLS	3050 x 2030	40	•	•	•	•	•	•	•	•

CRYLUX™ special conditions: Other thicknesses, colours and patterns can be produced to order, but are subject to special conditions (minimum order quantities, production lead times and price surcharge).

* = For indoor applications, **CRYLUX™ Neon Out** for outdoor applications.
FLS = double-sided glossy
• = Non standard products are available in our product offer but subject to special conditions and minimum order quantities.
Products having a number of sheets per pallet in the table are available on stock.
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CRYLUX™ Design

SINGLE- OR DOUBLE-SIDED MATT SURFACES IN MANY EYE-CATCHING AND VIBRANT COLOURS

Thanks to the non-glare surfaces of **CRYLUX™ Design** the light dispersion is intensified, its matt surfaces increase the dispersion effect additionally. The lustrous satin-like texture – with its warm shading – won't stain, or be contaminated through fingerprints.

The texture of **CRYLUX™ Design** is even retained after processes such as thermoforming and hot bending, ensuring that the finished article remains true to the original concept.

CHARACTERISTICS

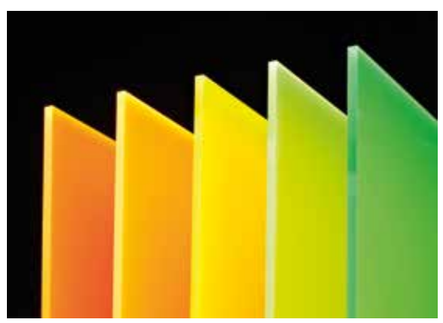
- Warm shading
- Stain-resistant
- Wide range of colours
- Satin-like texture
- Reduces fingerprints and attracts less dust
- Softens harsh colours
- Good processing and thermoforming characteristics
- Resistant to many chemical products
- Non-glare surfaces intensify light dispersion
- Dispersion effect is increased by the matt surfaces

APPLICATIONS

- Interior design
- Elegant furniture
- Showcases
- POS/POP displays
- Decorative elements
- Advertising signs

PROCESSING

- Printing
- Laminating
- Sawing
- Drilling
- Thread cutting
- Milling
- Laser and water jet cutting
- Polishing
- Bonding
- Welding
- Hot bending
- Thermoforming
- Tempering



COLOUR		FEATURE	LT	SIZE (mm)	SHEETS PER PALLET										
					THICKNESS (mm)										
CRYLUX™ Design					3	4	5	6	8	10	12	15	20	25	30
	Arctic Mist 1000	ARD	89%	3050 x 2030	40	30	25	20	15	10	•	•	•	•	•
	Iceland White 2008	ARD	91%	3050 x 2030	40	30	25	•	•	•	•	•	•	•	•
	Antarctic White 2000	ARD	75%	3050 x 2030	40	30	25	20	15	10	•	•	•	•	•
	Everglade Green 1512	ARD	93%	3050 x 2030	•	•	25	•	•	•	•	•	•	•	•
	Evian Blue 1875	ARD	78%	3050 x 2030	•	•	25	•	•	•	•	•	•	•	•
	Tahiti Blue 1809	ARD	35%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•
	Cape Town Yellow 1212	ARD	62%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•
	Seville Orange 1307	ARD	47%	3050 x 2030	•	•	25	•	•	•	•	•	•	•	•
	Bordeaux Red 1600	ARD	45%	3050 x 2030	•	•	25	•	•	•	•	•	•	•	•
	China Rose 2614	ARD	48%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•
	Bali Green 1549	ARD	9%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•
	Havana Brown 1438	ARD	23%	3050 x 2030	•	•	25	•	•	•	•	•	•	•	•
	Village Green 2512	MAT	44%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•
	Nordic Blue 2811	MAT	50%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•
	Parma Violet 2701	MAT	55%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•
	Petra Rose 2608	MAT	24%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•
	Mexican Orange 2305	MAT	43%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•
CRYLUX™ Design Fluorescent					3	4	5	6	8	10	12	15	20	25	30
	Cypress Green 1571	ARD	81%	3050 x 2030	•	•	•	•	•	•	•	•	•		
	Bavarian Green 1572	ARD	73%	3050 x 2030	•	•	•	•	•	•	•	•	•		
	California Yellow 1271	ARD	75%	3050 x 2030	•	•	•	•	•	•	•	•	•		
	Lisbon Orange 1371	ARD	62%	3050 x 2030	•	•	•	•	•	•	•	•	•		
	Cancun Pink 1671	ARD	74%	3050 x 2030	•	•	•	•	•	•	•	•	•		

CRYLUX™ special conditions: Other thicknesses, colours and patterns can be produced to order, but are subject to special conditions (minimum order quantities, production lead times and price surcharge).

ARD = double-sided matt, MAT = single-sided matt
LT = Light transmission (Figures apply to 3 mm sheet thickness only.)
• = Non standard products are available in our product offer but subject to special conditions and minimum order quantities.
Products having a number of sheets per pallet in the table are available on stock.
The colours printed may vary from the original. To ensure exact colour matching please ask for a colour sample.

LIGHT

The product line **CRYLUX™ & LIGHT** is the optimal tool for the field of visual communication. The materials can stand and shine alone or they can be the perfect support to highlight your brand and make it stand out from the crowd.

Innovative characteristics, such as an uniform light diffusion and exact projection techniques, underline the excellent conditions for the development of new designs.

In the fields of decoration, lighting and advertising the product line **CRYLUX™ & LIGHT** can be used particularly with the excellent combination of LED technology and to create stand-alone corporate letters with individual lighting.

CRYLUX™ Lumina

UNIQUE LIGHT DIFFUSION CHARACTERISTICS

The innovative properties allow for an even distribution of light-ideal for the development of new designs in decoration, lighting and advertising.

Once the light source is applied to the edges of the sheet, a uniformed light across the whole surface, and outwards, is generated.

CRYLUX™ Lumina is specially suitable for ultra-slim lighting frames (light-boxes) which incorporate LED lighting, such as urban displays, bus shelters and poster mounts. The dimensions of the final frames can be reduced and the light output can be maximised.

COLOUR	FEATURE	SIZE (mm)	SHEETS PER PALLET									
			THICKNESS (mm)									
CRYLUX™ Lumina			3	4	5	6	8	10	12	15	20	25	30
Light diffusion 2050	FLS	3050 x 2030	•	30	25	20	15	10	•	•	•	•	•
CRYLUX™ special conditions: Other thicknesses, colours and patterns can be produced to order, but are subject to special conditions (minimum order quantities, production lead times and price surcharge).													

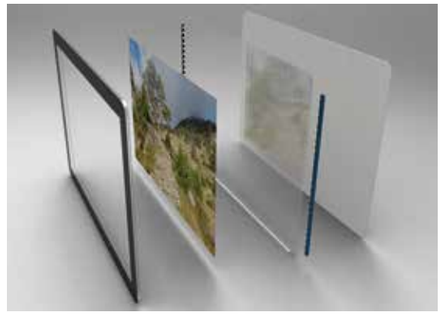
FLS = double-sided glossy

• = Non standard products are available in our product offer but subject to special conditions and minimum order quantities.

Products having a number of sheets per pallet in the table are available on stock.

CHARACTERISTICS

- Unique light diffusion characteristics (Light is installed at the edges and distributed evenly through the sheet surface)
- Avoids disturbing shadows by back lights or LED hotspots
- Easy maintenance
- Suitable for use with any light source: Fluorescent tubes, LEDs, cold cathode tubes, optical fibres

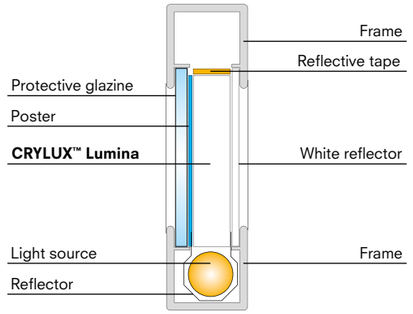


APPLICATIONS

- Urban displays
- Bus shelters
- Poster mounts
- Advertising
- Double-sided poster frames
- Safety signage
- Decorative Lighting

PROCESSING

- Printing
- Laminating
- Sawing
- Drilling
- Thread cutting
- Milling
- Laser and water jet cutting
- Polishing
- Bonding
- Welding
- Hot bending
- Thermoforming
- Tempering



FRAME CONFIGURATION

In order to obtain the best lighting performance using **CRYLUX™ Lumina**, remember the following guidelines:

- Edges should be flat-cut and polished (preferably diamond polished).
- Non-illuminated edges should be protected by a reflective adhesive tape (mirror or white reflector).
- Light sources should be as close as possible to the edge of the sheet. Any accessory designed to focus light into the sheet, will enhance the material's properties.
- A white reflector behind **CRYLUX™ Lumina** will increase surface illumination.

CRYLUX™ Vision

FOR DISPLAYING MESSAGES IN AUDIO-VISUAL PRESENTATIONS

In a world of fast-moving images and information, **CRYLUX™ Vision** is specified for tailor-made presentations and allows your product and your brand to stand out from the mass.

The three types in the range, **CRYLUX™ Vision Front**, **CRYLUX™ Vision Rear** and **CRYLUX™ Vision Through** cover all viewing requirements for the ultimate presentation on screen.

CHARACTERISTICS

- **CRYLUX™ Vision Front**: white, opaque, rigid screen to be used in frontal projections.
- **CRYLUX™ Vision Rear**: neutral grey-coloured sheet specially developed for rear projection and due to its special transmission values, images can be seen on both sides of the screen simultaneously. In rear projection applications, bright and clear images completely eliminate the 'hot spots' often seen with conventional projection screens.
- **CRYLUX™ Vision Through**: almost transparent sheet that allows the projection of images, and also a clear view through the sheet in zones where no image is projected.
- Rigid screen construction eliminates the risk of image distortion that can occur with textile screens.
- Matt surfaces avoid disturbing light reflection.

APPLICATIONS

- Projection screen presentation
- Projection screens
- Front projections
- Rear projections

PROCESSING

- Printing
- Laminating
- Sawing
- Drilling
- Thread cutting
- Milling
- Laser and water jet cutting
- Polishing
- Bonding
- Welding
- Hot bending
- Thermoforming
- Tempering

COLOUR		FEATURE	SIZE (mm)	SHEETS PER PALLET								
				THICKNESS (mm)								
CRYLUX™ Vision				3	4	5	6	8	10	12	15	20
	Vision Front 3014	MAT	3050 x 2030	•	30	•	•	•	•	•	•	•
	Vision Front 3014	ARD	3050 x 2030	•	•	•	•	•	•	•	•	•
	Vision Rear 2950	ARD	3050 x 2030	•	30	•	•	•	•	•	•	•
	Vision Rear 2950	MAT	3050 x 2030	•	30	•	•	•	•	•	•	•
	Vision Through 2051	FLS	3050 x 2030	•	30	•	•	•	•	•	•	•

CRYLUX™ special conditions: Other thicknesses, colours and patterns can be produced to order, but are subject to special conditions (minimum order quantities, production lead times and price surcharge).

FLS = double-sided glossy, ARD = double-sided matt, MAT = single-sided matt
• = Non standard products are available in our product offer but subject to special conditions and minimum order quantities.
Products having a number of sheets per pallet in the table are available on stock.

INSTALLATION GUIDELINES

As a rule of thumb, the following indications should be considered when installing a projection screen:

- Viewing distance from the projector to the screen depends on the screen size and the projector itself.
  As illustrative values:
  Screen size = 50" / Viewing distance = 1.5 - 2.0 m, Screen size = 100" / Viewing distance = 2.6 - 4.5 m, Screen size = 120" / Viewing distance = 2.6 - 5.0 m
- Viewers' line of vision should be 1/3 of the height from the bottom of the screen.
  These are only suggestions; space considerations will determine actual distances.

CRYLUX™ Optima

SPECIALLY DESIGNED TO BE USED WITH LED BACKLIGHTING

Light transmission of these colours has been adjusted to the wavelength of the light-emitting diode (LED), minimising the number of LED lights needed to achieve the desired light intensity.

CRYLUX™ Optima also has high light diffusion properties, providing a perfect light spread through the sheet, avoiding any distracting shadows from the LED lights which are placed behind.

The sheets are ideal for applications in the advertising and sign industries, to put your designs in perspective.

COLOUR		FEATURE	LT	SIZE (mm)	SHEETS PER PALLET											
					THICKNESS (mm)											
CRYLUX™ Optima[1]					3	4	5	6	8	10	12	15	20	25	30	35
	White 2021	LED	59%	3050 x 2030	40	•	•	•	•	•	•	•	•	•	•	•
	Yellow 2250	LED	51%	3050 x 2030	40	•	•	•	•	•	•	•	•			
	Orange 2251	LED	62%	3050 x 2030	40	•	•	•	•	•	•	•	•			
	Orange-Amber 2350	LED	62%	3050 x 2030	40	•	•	•	•	•	•	•	•			
	Super-Red 2651	LED	58%	3050 x 2030	40	•	•	•	•	•	•	•	•			
	True-Green 2550	LED	36%	3050 x 2030	40	•	•	•	•	•	•	•	•			
	Blue 2851	LED	51%	3050 x 2030	40	•	•	•	•	•	•	•	•			

CRYLUX™ special conditions: Other thicknesses, colours and patterns can be produced to order, but are subject to special conditions (minimum order quantities, production lead times and price surcharge).
Production of the material thickness 35 mm in format 3000 x 2000 mm.

[1] = Light transmission values referred to emitting wavelength (see technical data sheet).
LT = Light transmission (Figures apply to 3 mm sheet thickness only.)
• = Non standard products are available in our product offer but subject to special conditions and minimum order quantities.
Products having a number of sheets per pallet in the table are available on stock.
The colours printed may vary from the original. To ensure exact colour matching please ask for a colour sample.

CHARACTERISTICS

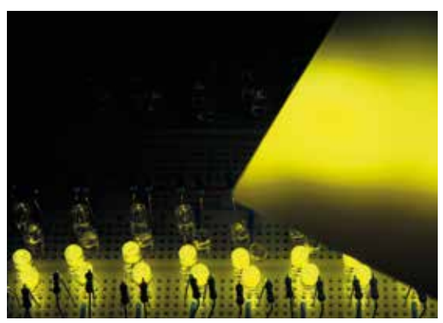
- Smooth or matt surface
- Specially designed to be used with LED backlighting
- Light transmission of these colours has been adjusted to the desired wavelength of the LEDs
- To achieve the light intensity, only a small number of LEDs is required
- Excellent light diffusion properties
- Perfect light spread through the sheet
- Avoiding distracting shadows from the LED lights which are placed behind

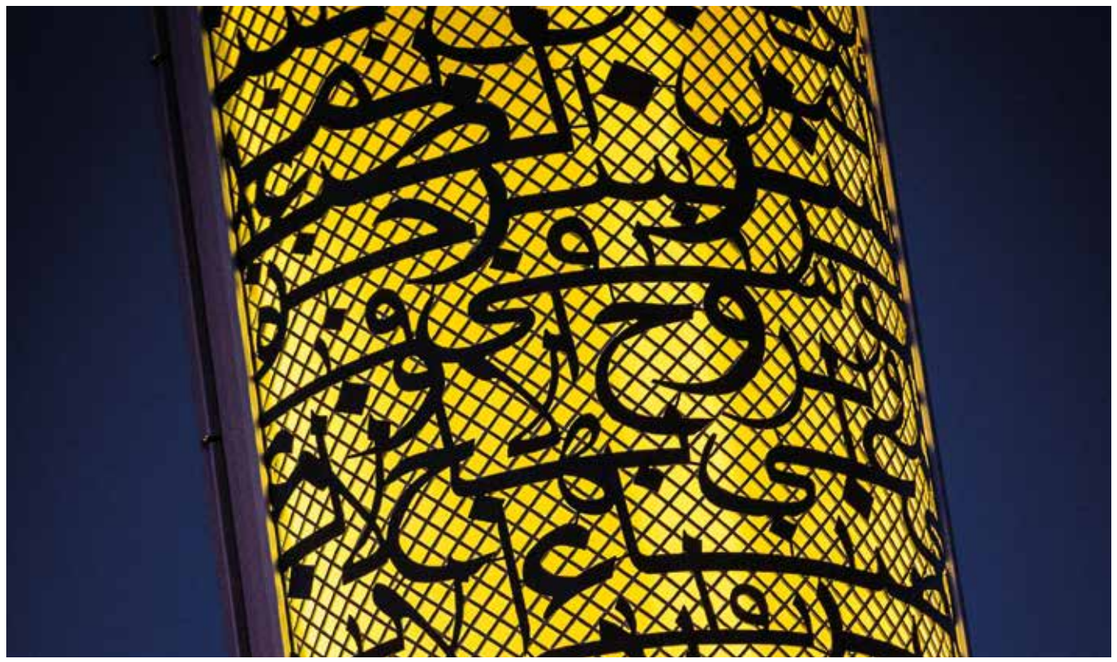
APPLICATIONS

- POS/POP displays
- Signage
- Advertising

PROCESSING

- Printing
- Laminating
- Sawing
- Drilling
- Thread cutting
- Milling
- Laser and water jet cutting
- Polishing
- Bonding
- Welding
- Hot bending
- Thermoforming
- Tempering





CRYLUX™ Fluoedge

LIGHT COLOURED SHEETS WITH FLUORESCENT EDGES

CRYLUX™ Fluoedge is the range of transparent sheets with fluorescent edges. While the surface of the sheet appears to be clear, the edges are coloured to allow special effects with or without light.

Specially designed for the manufacture of furniture, table tops and shelves, the range of vivid edges allows it all for imagination and design.

CHARACTERISTICS

- Transparent, almost clear surface
- Vivid, coloured edges

APPLICATIONS

- Furniture
- Table Top
- Shelve
- Decoration
- Fashion designs

PROCESSING

- Printing
- Laminating
- Sawing
- Drilling
- Thread cutting
- Milling
- Laser and water jet cutting
- Polishing
- Bonding
- Welding
- Hot bending
- Thermoforming
- Tempering

COLOUR		FEATURE	LT	SIZE (mm)	SHEETS PER PALLET										
					THICKNESS (mm)										
CRYLUX™ Fluoedge					3	4	5	6	8	10	12	15	20	25	30
	Banana Yellow 1260	transparent	85.7%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•
	Fiery Orange 1360	transparent	82.2%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•
	Schocking Pink 1660	transparent	85.4%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•
	Lime Green 1580	transparent	86.9%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•
	Electric Blue 1860	transparent	83.5%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•
	Wildflower Violet 1760	transparent	84.8%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•

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LT = Light transmission (Figures apply to 3 mm sheet thickness only.)
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CRYLUX™ Night & Day

IMPRESSIVE RESULTS – BY DAY AS WELL AS BY NIGHT

Colour change using the same sheet is possible with **CRYLUX™ Night & Day**. The sheets are ideal to produce corporate signs in indoor or outdoor applications.

Let it stand without light during the day, and it will be a dark sign or corporate letter on top of a roof or in the middle of a façade. When it is back-illuminated at night it will become into an outstanding white letter that is visible to all.

CHARACTERISTICS

- Changes colour from dark (without back-lighting) to white (with back-lighting)
- Top side is anti-glare and allows even light diffusion through the sheet
- Allows powerful lighting without generating hotspots

APPLICATIONS

- Corporate signs
- Illuminated letters

PROCESSING

- Printing
- Laminating
- Sawing
- Drilling
- Thread cutting
- Milling
- Laser and water jet cutting
- Polishing
- Bonding
- Welding
- Hot bending
- Thermoforming
- Tempering

COLOUR		FEATURE	LT	SIZE (mm)	SHEETS PER PALLET										
					THICKNESS (mm)										
CRYLUX™ Night & Day					3	4	5	6	8	10	12	15	20	25	30
	Black & White 2902	MAT	17%	3050 x 2030	40	30	•	•	•	•	•	•	•	•	•
	Grey & White 2913	MAT	37%	3050 x 2030	•	•	•	•	•	•	•	•	•	•	•

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LT = Light transmission (Figures apply to 3 mm sheet thickness only.)
• = Non standard products are available in our product offer but subject to special conditions and minimum order quantities.
The colours printed may vary from the original. To ensure exact colour matching please ask for a colour sample.

PROTECT

The product range **CRYLUX™ & PROTECT** provides optimal conditions for upgrading the materials and making them suitable for applications in extreme environments or for use in places where stringent hygiene standards must be met.

Application vary from laboratories, gyms, spas, sanitary facilities or cosmetic displays. Thanks to the special features of the UV radiation protection and the UV filter **CRYLUX™ & PROTECT** is perfectly suitable for use particularly in museums and solariums.

The final product can be customised to every need, in terms of colour (from transparent to opaque) and surface finish (different smooth or matt surfaces).

CRYLUX™ Beauté

ACRYLIC SHEETS WITH INCREASED CHEMICAL RESISTANCE

CRYLUX™ Beauté is specially designed to have a better chemical resistance and is therefore ideal for enhancing and protecting cosmetic displays and medical applications.

The product range shows improved performance in terms of inner stress after going through various manipulation techniques such as laser cutting, flame polishing, hot bending, drilling, milling and screen printing.

When it comes to your design – any colour, from transparent to opaque, and with the added choice of a smooth or matt finish – **CRYLUX™ Beauté** will preserve it for years to come.

CHARACTERISTICS

- More resistant to chemicals, solvents, alcohols
- Wide range of colour references – from transparent to opaque
- Smooth or matt surface
- Resistant to UV rays
- Colourless additive (can be added to any colour)

APPLICATIONS

- Cosmetic displays
- External medical applications
- POS/POP displays for perfumes and chemical agents
- Laboratory applications

PROCESSING

- Printing
- Laminating
- Sawing
- Drilling
- Thread cutting
- Milling
- Laser and water jet cutting
- Polishing
- Bonding (When using with standard solvent acrylic glues, increased contact time will be required)
- Welding
- Hot bending
- Thermoforming
- Tempering

CRYLUX™ Beauté can be produced in any color and in any thickness, depending on the product range.

CRYLUX™ Anti-Bacteria

WITH ANTI-MICROBIAL AND FUNGICIDE PROTECTION

Thanks to the anti-microbial and fungicide protection, **CRYLUX™ Anti-Bacteria** is the ideal material for places, where extreme hygienic conditions are required.

With a special additive which blocks the development of micro-organisms, **CRYLUX™ Anti-Bacteria** increases the level of hygiene in specific areas, eliminates the development of odours and dark stains, and is long lasting even after prolonged.

Thermoforming is yet another strength of this product range. Thanks to the low migration with temperature, the material can be thermoformed without modifying its anti-microbial properties.

CHARACTERISTICS

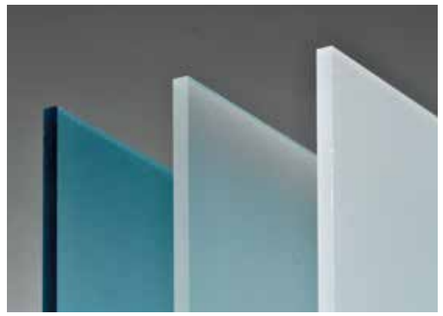
- Protects against and inhibits growth of active fungi, algae and bacteria – meaning no odours or dark surface stains
- Evaluated in a biological laboratory using the standard ISO 846:1997
- Water insoluble, therefore unaffected by prolonged washing
- Colourless additive (can be added to any colour)
- Mechanical properties are not modified compared to sanitary material
- Not suitable for application in direct contact with foodstuff
- High chemical resistance and thermoformability
- Low migration with temperature

APPLICATIONS

- Hygienic furniture (medical and laboratory equipment)
- Sanitary ware (wall panels, shower trays and bath tubs)
- Gyms
- Spas
- Public lavatories

PROCESSING

- Printing
- Laminating
- Sawing
- Drilling
- Thread cutting
- Milling
- Laser and water jet cutting
- Polishing
- Bonding
- Welding
- Hot bending
- Thermoforming
- Tempering



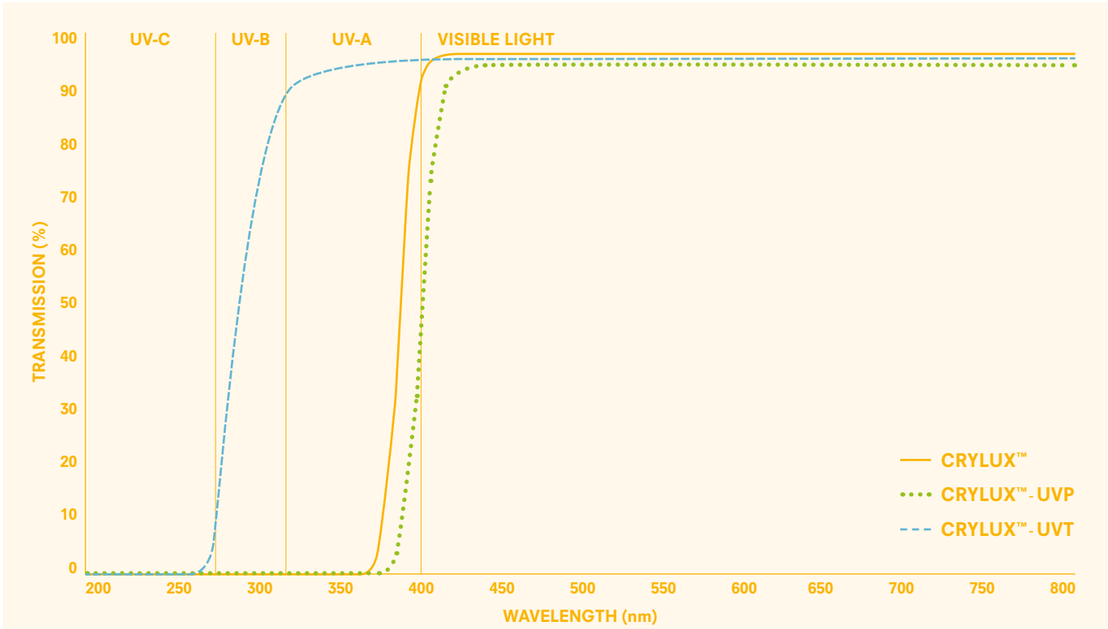
CRYLUX™ Anti-Bacteria can be produced in any color and in any thickness, depending on the product range.

CRYLUX™ - UVP

FOR APPLICATIONS IN EXTREME UV EXPOSURE

CRYLUX™ - UVP (extra ultraviolet protection) is highly protected against UV radiation. Not only does **CRYLUX™ - UVP** show higher absorption, but this effect is longer lasting than for the standard.

Therefore, this product is especially suitable for outdoor applications, for final parts that are long and directly exposed to sunrays (e.g. marine applications) or for colours and images that require special protection. Due to the complete absorption of UV-A rays, the fading of colours in paintings and images can be prevented (e.g. in museums).



CRYLUX™ - UVT

THE PERFECT FILTER FOR UV LIGHT

CRYLUX™ - UVT is transparent to UV-A radiation (UV-transmitted) and partially to UV-B radiation. For applications like sunbeds/solariums, the sheets must let part of the UV radiation through. **CRYLUX™ - UVT** does, but it is opaque to the high energy UV radiation thus prevents fast material degradation.