

Materials Services
Materials Poland

Plastics Advertising



thyssenkrupp

Plastics Advertising

Illuminated Signage

Extruded Acrylic Sheets (PMMA)	4
Cast Acrylic Sheets (PMMA)	5
Cast Acrylic Sheets (PMMA) for special applications	6
Cast Acrylic Blocks (PMMA)	7

Point-of-sale equipment

PET polyester panels	8
PETG polyester panels	9
SAN panels	10

Signboards, spatial letters and structures

PVC foam panels	11
-----------------	----

Printing and production of packaging

Hard PVC panels and films	12
PP films	13

Interior design

lyx® Bond and lyx® Bond basic composite panels	14
DIBOND® and Hylite® composite panels	15

Digital UV printing

DISPA® KAPA®, Foam-X® cardboard-foamboard panels	16-18
Lightweight sandwich panels	19-20

Other products

Plastics	23
Metals	23

Extruded Acrylic Sheets (PMMA)

PMMA (polymethyl methacrylate) panels are transparent, rigid and thermoplastic. They are manufactured using the extrusion method. They are naturally colourless, which ensures high transparency. They are resistant to UV radiation and weather conditions, which makes them ideal for glass substitution in glazing applications.

They are used in point-of-sale display units, racks and lighting fixtures to ensure full performance without distracting customers from the products presented within them.

XT HI – panels demonstrating enhanced impact strength.

XT UVT – panels permeable for UV radiation, used in sun lounges.

XT Mirrors – silver, gold and coloured panels (available on request) with a one-sided coating providing the “mirror effect”.

opal WO 025 – light transmission 25%, **opal WO 075** – light transmission 75%.

opal WO 047 – light transmission 47%, **white WO 004** – light transmission 4%.

WL 053 LED – light transmission 53%.

Colour	Thickness (mm)	1,5	1,8	2	2,5	3	4	5	6	8	10	12	15	20
	Panel dimensions (mm)													
Clear	2050 x 3050	●	●	●	□	●	●	●	●	●	●	□	●	●
Opal	2050 x 3050	-	-	●	-	●	●	●	●	□	□	-	-	-
Colours as per the colour chart	2050 x 3050	-	-	● ⁽¹⁾	-	● ⁽¹⁾	□	● ⁽¹⁾	□	-	-	-	-	-
Clear HI50 (67kJ) and 610 (60kJ)	2050 x 3050	-	-	●	-	●	□	□	-	-	-	-	-	-
Opal 610 (60kJ)	2050 x 3050	-	-	□	-	●	□	□	-	-	-	-	-	-
Clear 620 (35kJ)	2050 x 3050	-	-	□	-	□	□	□	-	-	-	-	-	-
Clear 630 (25kJ)	2050 x 3050	-	-	□	-	□	□	□	-	-	-	-	-	-
Silver Mirror	2050 x 3050	-	-	●	-	●	□	□	-	-	-	-	-	-
Golden Mirror	2050 x 3050	-	-	□	-	●	-	-	-	-	-	-	-	-
Coloured Mirror	2050 x 3050	-	-	-	-	□	-	-	-	-	-	-	-	-
Clear UVT	2050 x 3050	-	-	□	-	□	□	□	□	□	-	-	-	-

Colour	Thickness (mm)	1,5	1,8	2	2,8	3	4	5	6	8	10	12	15	20
	Panel dimensions (mm)													
Prism H-12	1250 x 2800 1250 x 2500	-	-	-	□	-	-	-	-	-	-	-	-	-

● – components □ – on request, (1) selected colours



Advantages

- ➞ Resistance to weather conditions, mineral oils, diluted acids and alkalis
- ➞ Plastic resistant to UV radiation and ageing
- ➞ Good optical properties and excellent surface finish, transparency similar to glass
- ➞ Approved for contact with foodstuffs
- ➞ Good recycling properties

Applications



ADVERTISING

Illuminated advertising signs, advertising lightboxes
• Spatial letters • Shop decorations and furnishings
• Advertising panels • Shop displays and shelves



CONSTRUCTION

Structural elements • Light domes
• Partition walls and roofs • Caravan windows
• Greenhouse and winter garden glazing
• Door fillers, glazing and partition walls, skylights
• Sound absorbing barriers by motorways



INDUSTRY

Dairy diffusers • Technical elements • Machinery enclosures and covers • Car defectors and headlights

Cast Acrylic Sheets (PMMA)

Cast polymethyl methacrylate sheets. The final product in 90-95% consists of PMMA, and other components are additives, e.g. stabilisers, plasticisers, dyes and pigments, and anti-adhesive agents. The wide product range comprising colourless, opal, white, coloured (coated, translucent and transparent) panels and gloss or matt surface finishes creates a virtually unlimited scope of applications. The product offering is divided into collections, i.e.:

Harmony – colourless, white, opal and all coating colours.

Aquarelle – all transparent colours. **Pop** – all fluorescent colours.

Shade – smoky colours.

Elegance – satin.

Product	Colour	Thickness (mm)	3	4	5	6	8	10	12	15	20	25
		Panel dimensions (mm)										
Harmony	Clear	2030 x 3050	●	●	●	●	●	●	□	●	●	●
	Opal 440 (LT 30%)	2030 x 3050	●	●	□	□	●	●	□	□	□	-
	Opal 400 (LT 44%)	2030 x 3050	●	□	●	□	●	●	□	●	●	-
	Opal 350 (LT 50%) Opal 300 (LT 70%) Opal 180 (LT 78%)	2030 x 3050	□	□	□	□	□	□	□	□	□	-
	White 900 (LT 8%)	2030 x 3050	●	□	□	□	●	●	□	□	-	-
	Black 7990	2030 x 3050	●	□	□	□	●	●	□	□	-	-
	Colours	2030 x 3050	● ⁽¹⁾	□	□	□	□	□	□	□	-	-
Aquarelle	Transparent colours	2030 x 3050	● ⁽¹⁾	□	□	□	□	□	□	□	-	-
Pop	Fluorescent	2030 x 3050	●	□	□	□	□	□	□	□	-	-
Shade	Smoky	2030 x 3050	□	□	□	□	□	□	□	□	-	-
Elegance Mono (Single-sided satin)	Clear	2030 x 3050	●	□	●	□	□	□	□	□	-	-
	Opal	2030 x 3050	□	□	□	□	□	□	□	□	-	-
	Colour	2030 x 3050	● ⁽¹⁾	□	□	□	□	□	□	□	-	-
Elegance Duo (Double-sided satin)	Clear	2030 x 3050	●	●	●	●	●	□	□	□	-	-
	Opal	2030 x 3050	□	□	□	□	□	□	□	□	-	-
	Colours	2030 x 3050	● ⁽¹⁾	□	□	□	□	□	□	□	-	-

⁽¹⁾ selected colours, ● – components □ – on request

Advantages

- ➞ Transparent sheets are characterised by the light transmission coefficient amounting to 93%.
- ➞ They are much lighter and more resistant to impact than glass panels of similar thickness.
- ➞ They are impermeable to UV radiation, and their properties include high thermal stability and low water absorption.
- ➞ The sheets are easy to process and suitable for most processing and forming techniques, which ensures high design attractiveness.

Applications

- ➞ **ADVERTISING**
Illuminated signage, advertising signboards, advertising façades • Spatial letters
- ➞ **CONSTRUCTION**
Roofing, skylights, façades • Windows for aircraft, vehicles, submarines and ships
- ➞ **INDUSTRY**
Furniture manufacturers and shop interior designers



Cast Acrylic Sheets (PMMA) for special applications

OROGLAS® Colour&White 826/844 – panels intended for the construction of lightboxes demonstrating special properties. These are cast panels that are colourful during the day, and at night become transparently white under the influence of artificial lighting. Used for production of signage and decorative illumination systems.

OROGLAS® D-Fuse 843 – Ensure uniform light dispersion after applying its source to an edge. Ideal solution for narrow frames.

OROGLAS® LED 800 – Panels designed for LED backlighting.

OROGLAS® UV Stop-841 – Panels with enhanced UV radiation resistance. Used in museums to secure paintings and other works of art.

OROGLAS® MUST-863 – Cast panels demonstrate high resistance to chemical agents, alcohol, and solvents, as well as staining and scratching.

OROGLAS® Metallic&Iridescent 830/831 – Panels with a unique structure, and metallic, glossy or iridescent appearance. They provide attractive, unique effects in all structures designed to attract attention.

Product	Colour	Thickness (mm)	3	4	5	6	8	10	12	15	20	25
		Panel dimensions (mm)										
OROGLAS® LED 800	Opal	2030 x 3050	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Colour	2030 x 3050	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
OROGLAS® Colour&White 826/844	Colour/White	2030 x 3050	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
OROGLAS® D-fuse 843	Clear	2030 x 3050	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
OROGLAS® UV Stop 841	Clear	2030 x 3050	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
OROGLAS® MUST 863	Clear	2030 x 3050	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
OROGLAS® Metallic&Iridescent 830/831	Gloss	2050 x 3080	☐	☐	☐	☐	-	-	-	-	-	-
	Satin	2050 x 3080	☐	☐	☐	☐	-	-	-	-	-	-

● – components ☐ – on request



Advantages

- ➔ Resistance to weather conditions
- ➔ High transparency and excellent optical properties
- ➔ Easy mechanical and thermal treatment
- ➔ Resistance to UV radiation
- ➔ Resistance to chemicals

Applications

- ➔ **ADVERTISING**
Illuminated graphic signs, lightboxes and LED ads, edge-illuminated advertising lightboxes, display window illumination systems, customer service centre equipment, shop windows, backlighting for ads, lightboxes and spatial letters, lighting fixtures, trade fair stand construction and finishing
- ➔ **INDUSTRY**
Finishing elements in the furniture industry, elements for backlighting, shelves, door filling

Cast Acrylic Blocks (PMMA)

PMMA blocks are used in advertising as highly sophisticated advertisement media. They allow for unconventional utilisation of optically excellent PMMA properties. Susceptibility to machining makes it possible to produce details quickly with original shapes. PMMA blocks are also used in the furniture industry, for product exhibition purposes and as interior design elements.

Colour	Thickness (mm)	30	40	50	60	70	80	90	100	110
Panel dimensions (mm)										
Clear	1200 x 2000	●	●	●	□	□	□	□	□	□
Opal LED	1200 x 2000	●	□	□	□	-	-	-	-	-
Colours LED	1200 x 2000	●	□	□	□	-	-	-	-	-
Black	1200 x 2000	□	□	□	□	-	-	-	-	-

● – components □ – on request

Advantages

- ➞ Excellent optical properties.
- ➞ Easy machining.
- ➞ Broad range of products.
- ➞ High resistance to weather conditions, mineral oils, diluted acids and alkalis.
- ➞ Material resistant to ultraviolet radiation, which prevents yellowing.

Applications

- ➞ **ADVERTISING**
 - Spatial letters
 - Illuminated graphic signs
 - Point-of-sale equipment
 - Display stands and presentation folders
 - Advertising gadgets
 - Engraved statuettes as business and jubilee gifts, souvenirs, awards
- ➞ **CONSTRUCTION**
 - Noise barriers
 - Partition walls as well as vertical and horizontal glazing
- ➞ **INDUSTRY**
 - Interior design elements
 - Tables, cabinets, counters
 - Lighting systems - covers and light fixtures
 - Small utility objects, machinery and equipment components



PET polyester panels

PET (polyethylene terephthalate) is a thermoplastic, environmentally-friendly material, available in the form of transparent (white, milky and anti-reflective) panels. It is also available in a UV-stabilised version. It demonstrates excellent mechanical properties. It is designed for internal use, but the UV-stabilised version can also be employed outdoors. The panels are fully recyclable.

Product	Thickness (mm)	0,4	0,5	0,6	0,7	0,8	1	1,5	2	3	4	5	6
	Panel dimensions (mm)												
APET BASIC clear	1000 x 1400	□	□	□	□	□	□	□	□	□	□	-	-
	1250 x 2050	□	●	□	□	●	●	●	●	□	□	-	-
Lumex-A® clear	1250 x 2050	-	-	-	-	●	●	●	□	□	□	□	□
Axpet® 099 clear	2050 x 3050	-	-	-	-	●	●	●	●	●	□	□	□
Lumex-A® antireflex	1250 x 2050	-	-	-	-	●	□	□	□	-	-	-	-
Axpet® 099NR antireflex	2050 x 3050	-	-	-	-	●	●	●	□	-	-	-	-
Lumex-A® opal 30%	1250 x 2050	-	-	-	-	-	●	●	□	-	-	-	-
Axpet® 130 opal 30%	2050 x 3050	-	-	-	-	-	●	●	□	-	-	-	-

● – components □ – on request

Advantages

- ⇒ Approved for contact with foodstuffs
- ⇒ High resistance to chemicals
- ⇒ Good impact strength, also at negative temperatures
- ⇒ Easily printed
- ⇒ Light transmission up to 90%

Applications

- ⇒ **ADVERTISING**
Information and advertising stands
Signboards, small elements providing information
Poster protection elements
Price label holders
- ⇒ **INDUSTRY**
Covers for production lines, equipment and automatic units



PETG polyester panels

Unlike PET panels, PETG panel composition contains an admixture of glycol to facilitate vacuum thermoforming processes. The panels are easy to form and demonstrate high impact strength. PETG panels remain transparent during such processes as heating, thermoforming and bending. They demonstrate excellent mechanical properties (impact strength) and resistance to chemicals. They are designed for internal use, but the UV-stabilised version can also be employed outdoors. PETG panels meet all applicable requirements resulting from food contact regulations and may be used to process unpacked foodstuffs.

Product	Thickness (mm)	0,5	0,75	0,8	1	1,5	2	3	4	5	6	8	10	12	15
Panel dimensions (mm)															
PETG Basic clear	2050 x 3050	-	-	-	-	●	●	●	□	□	-	-	-	-	-
Lumex-G® clear	1250 x 2050	●	□	-	●	●	□	□	□	□	□	□	□	-	-
Vivak® 099 clear	2050 x 3050	-	-	□	●	●	●	●	●	●	□	□	□	□	□
Lumex-G® opal 30%	2050 x 3050	-	-	-	□	□	□	□	-	-	-	-	-	-	-
Lumex-G® clear UV	2050 x 3050	-	-	-	-	-	□	□	□	□	□	-	-	-	-
Vivak® 099 clear UV	2050 x 3050	-	-	-	-	-	-	□	□	-	-	-	-	-	-
Vivak® 130 opal UV 30%	2050 x 3050	-	-	-	-	-	-	□	□	-	-	-	-	-	-

● – components □ – on request

Advantages

- Approved for contact with foodstuffs
- Easy machining
- Excellent resistance to chemicals
- Good impact strength, also at negative temperatures
- Easily printed
- Light transmission up to 90%
- High gloss and excellent optical properties
- Mechanical and thermal treatment
- Low water absorption (no drying required before thermoforming operations)

Applications

- **ADVERTISING**
 - Advertising stands and signboards
 - Poster protection elements, display cases
 - Point-of-sale furnishings
 - Shop furnishings
- **CONSTRUCTION**
 - Bus/tram stop roofing, other glazing applications
 - Traffic route canopies
 - Illumination controllers in hazardous areas
- **INDUSTRY**
 - Industrial masks and safety glasses
 - Distribution machines, dispensers
 - Food racks and containers
 - Components of refrigerators and refrigeration equipment
 - Medical industry – production of prostheses, medical supply packaging and medical instrument components



SAN panels

Extruded panels made of copolymer plastic consisting of styrene and acrylonitrile (SAN – styrene acrylonitrile). Weight reduction by 10% combined with much higher rigidity facilitates the application of sheets thinner by up to a third, e.g. than polyester panels. Exceptional resistance both to moisture and chemical absorption as well as to aliphatic hydrocarbons, non-oxidising acids, alkalis, vegetable oils, alcohols and detergents ensures a wide range of various SAN panel applications. Thus the panels are easier to maintain and can be used, e.g. as swimming pool covers. Such properties as low weight and UV protection make SAN panels ideal for glazing doors in industrial buildings, ensuring significant energy cost savings in locations where doors are controlled by means of electric motors.

Colour	Thickness (mm)	1,5	2	2,5	3	4	5	6
Panel dimensions (mm)								
Clear	2050 x 3050	☐	☐	☐	☐	☐	☐	☐
Opal	2050 x 3050	☐	☐	☐	☐	☐	☐	☐

● – components ☐ – on request



Advantages

- ➞ The panels are characterised by good optical properties and perfect surface structure.
- ➞ They can be easily machined and vacuum formed. They demonstrate high dimensional stability.
- ➞ High resistance to chemicals: panels are resistant to most fats, diluted acid solutions, common bleaching agents, as well as some solvents and weak alkaline solutions.
- ➞ Sheets can be used both in indoor and outdoor conditions (UV version), as they are unaffected by temperature fluctuations.
- ➞ Approved for contact with foodstuffs



Applications

- ➞ **ADVERTISING**
 - Food covering elements
 - Screen printing
 - Advertising signage
 - Shop and exhibition furnishings
 - Products on display
- ➞ **CONSTRUCTION**
 - Flat or curved doors for shower cubicles
 - Greenhouse glazing
 - Partitions
- ➞ **INDUSTRY**
 - Industrial glazing (doors)
 - Office equipment covers
 - Products intended for use in the medical industry and used to manufacture cosmetic packaging, battery enclosures, kitchen and sanitary appliance components, office equipment parts.

PVC foam panels

Panels made of polyvinyl chloride foam are available in a wide range of thickness versions and a diverse range of colours. Their characteristics include a tidy internal structure with closed cells as well as smooth and hard surfaces. Thanks to their specific properties and favourable quality-to-price ratio, they can be used in a wide range of applications, from advertising, through printing, to construction or industry. Continuous development of technologies used for production of this type of material facilitates its use both for traditional purposes and in modern solutions, such as digital printing.

Product	Thickness (mm)	1	2	3	4	5	6	8	10	13	15	19	30
Panel dimensions (mm)													
LUX Basic	1220 x 2440	-	□	□	□	□	□	□	□	□	□	□	□
	1220 x 3050	-	●	●	□	□	□	□	□	●	●	●	□
	1560 x 3050	-	□	●	□	□	□	□	□	●	●	●	-
	2050 x 3050	-	●	●	●	●	●	●	●	-	-	-	-
Digital	2030 x 3050	-	-	●	-	●	-	-	●	-	-	-	-
Standard	1220 x 3050	●	□	□	□	□	□	□	□	●	●	●	□
	1560 x 3050	□	□	□	□	□	□	□	□	□	●	●	-
	2030 x 3050	●	□	□	□	□	□	□	□	-	-	-	-
Colour	1220 x 3050	-	-	● ⁽¹⁾	-	□	□	-	-	-	-	-	-
	1560 x 3050	-	-	□	-	□	□	-	-	-	-	-	-
	2050 x 3050	-	-	● ⁽¹⁾	-	● ⁽¹⁾	-	□	□	-	-	□	-

⁽¹⁾ selected colours

● – components □ – on request

Applications



ADVERTISING

Lightweight structures in outdoor advertising, trade fair stand and shop structures
Printing media, digital printing, screen printing
POS structure elements (stands, swing signs, racks, presentation folders)
Spatial letters and elements



CONSTRUCTION

Architectural design elements
Window and door woodwork
Suspended ceilings
Partition walls
Formwork



INDUSTRY

Light protective elements for machines
Escape route labelling elements



Advantages

- ➞ Low weight
- ➞ High rigidity
- ➞ Flame-retardant certified, B - s2, d0 (as per 13501-1: 2007)
- ➞ Uniform surface
- ➞ Resistance to chemicals
- ➞ Low water absorption
- ➞ Low thermal conductivity
- ➞ High soundproofing
- ➞ Excellent for machining, cutting, bending, milling and glueing

Hard PVC panels and films

Hard panels made of polyvinyl chloride constitute a solid material, without pores and with a homogeneous structure. They are available in a wide range of thickness versions; they are colourless as a standard, with high transparency, and are also available in white, matt and glossy versions. These semi-finished products are widely used in advertising, construction and industry. Thanks to advanced manufacturing technology, the range of applications can be expanded with those particularly exposed to harmful UV radiation or requiring hygienic certificates. The panels are perfectly susceptible to machining operations, such as: drilling, saw cutting and milling, bending and thermoforming, glueing and welding. Such properties as high resistance to weather conditions and impact strength make it possible to use hard PVC panels in locations where damage is likely.

PVC films are manufactured by extrusion and calendering, and come in a wide variety of colours. The technology employed in transparent film manufacturing ensures excellent film hardness and surface smoothness, and eliminates any flow lines. They can be easily subjected to machining by means of commonly used methods such as die cutting, grooving, folding and thermoforming. PVC films create perfect printing media. They can be printed using offset printing and screen printing technologies, for which they do not require any initial preparation. PVC films are most commonly used in printing and advertising materials.

Product	Thickness (mm)	0,9	1	1,5	2	3	4	5	6	8
	Panel dimensions (mm)									
PALCLEAR® (clear)	1000 x 2000	□	●	●	●	●	□	□	□	□
	1220 x 2440	□	□	□	□	□	□	□	□	□
	1500 x 3000	□	●	●	●	●	□	□	□	□
PALOPAQUE® (white)	1000 x 2000	-	●	●	●	●	□	□	□	□
	1220 x 2440	-	□	□	□	□	□	□	□	□
	1500 x 3000	-	□	□	□	●	□	□	□	□

Product	Thickness (mm)	0,30	0,40	0,50	0,60	0,70	0,80	0,90	1,00
	Panel dimensions (mm)								
Clear (gloss / gloss) (matt / gloss)	1000 x 1400	●	●	●	□	●	□	□	□
White (gloss / gloss)	1000 x 1400	□	●	●	□	●	□	□	□

● – components □ – on request

Applications

ADVERTISING

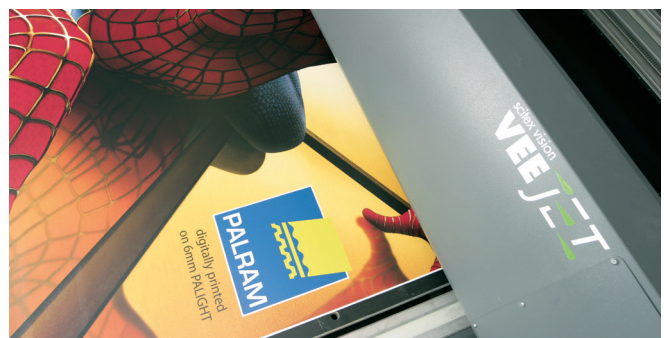
Lightbox elements • Printed surfaces for visual advertising • 3D spatial letters • Digital printing and screen printing • Labels, design foils • Posters, signboards, maps, displays • Labels, signboards, artistic prints • Calendars, price labelling systems • Boxes, cases, containers • School and office accessories • Dust jackets, folders, separators • Book and notebook covers • Card holders, catalogues, binders, clipboards • Document and credit card holders, CDs

CONSTRUCTION

Door and window structures, partition walls, window sills • Sandwich panel manufacturing • Structures inside shops and gastronomic premises • Ventilation and air-conditioning ducting elements

INDUSTRY

Switch boxes, cable ducts, galvanising tanks, machine enclosures • Structural elements of tanks, internal and external tank enclosures • Aeration cascades in sewage treatment plants • Laboratory table tops for the chemical industry and laboratory technology • Furniture industry, furniture back walls



Advantages

- ➔ Resistance to corrosion, chemicals and mechanical damage • Exceptional resistance to harmful environmental conditions • High transparency (colourless panels) • Insulating properties • Susceptibility to thermoforming • Flame-retardant certified, B1 • Screen printing and large-format printing • Films are characterised by high impact strength and excellent optical properties • Easy machining (bending, cutting, die cutting); can be glued and welded to design customised advertising forms and attractive packaging

PP films

Polypropylene film characteristics include excellent durability as well as state-of-the-art and effective appearance. They are a plastic material with the lowest density among all polymers used.

Product	Thickness (mm)	min. order	0,30	0,50	0,80	1,20
	Panel dimensions (mm)					
ViPrint™ ELEGANCE G2	700 x 1000	500 kg	☐	☐ ⁽²⁾	☐	☐
clear 0000	650 x 1100	500 kg	☐	☐	☐	☐
white 1155	800 x 1200	500 kg	☐	☐	☐	☐
black 9170	650 x 1100	500 kg	☐	☐	☐	☐
ViPrint™ COLOR G2	800 x 1200	500 kg	☐	☐	☐	☐
Coating colours						

⁽²⁾ white only

Product	Thickness (mm)	min. order	0,28	0,30	0,35	0,50	0,80
	Panel dimensions (mm)						
ViPrint™ THIN G1	700 x 1000	500 kg	☐	☐	☐	☐	☐
white 1170	1000 x 1400	500 kg	☐	☐	☐	☐	☐
ViPrint™ ECLIPSE G1	1250 x 1850	1000kg	☐	☐	☐	☐	☐
white 1170							
ViPrint™ THIN G1	1000 x 1400	500 kg	☐	☐	☐	☐	☐
white backlight 1108							
ViPrint™ PURE GLASS G3	800 x 1200	500 kg	☐	☐	☐	☐	☐
ViPrint™ TONIC G2	650 x 1100	500 kg	☐	☐	☐	☐	☐
Fluorescent colours	800 x 1200	500 kg	☐	☐	☐	☐	☐
ViPrint™ ELEGANCE G2	800 x 1200	500 kg	☐	☐	☐	☐	☐
Translucent colours							
ViPrint™ METAL G2	650 x 1100	500 kg	☐	☐	☐	☐	☐
	800 x 1200	500 kg	☐	☐	☐	☐	☐
ViPrint™ COSMOS G2 ⁽¹⁾	800 x 1200	500 kg	☐	☐	☐	☐	☐
ViPrint™ REFLET G4							
ViPrint™ DIAGONAL G6							

⁽¹⁾ only available in 0,80 mm thickness version

● – components ☐ – on request

Advantages

- ➔ Flexibility • High quality
- Mechanical strength
- Resistance for tearing and stretching
- Good weldability
- Resistance to water impact
- Environmentally friendly material

Applications

- ➔ **PRINTED FILM PACKAGING**
Office materials and stationery • Textiles
- Toys, jewellery and cosmetics
- Packaging with a “window”
- Thermally formed blisters
- Foodstuffs and industrial goods
- ➔ **ADVERTISING**
Loyalty cards • Signboards, labels, posters and stickers • Mousepads



lyx® Bond and lyx® Bond basic composite panels

lyx® Bond and lyx® Bond basic composite panels with aluminium cladding and polyethylene cores. Flexible aluminium alloy and the perfect surface finish of these panels are factors affecting a wide range of applications. Diversity of surface finishes for these panels facilitates their application in advertising, printing, construction, industry, and many other related fields.

Product	GLOSS / PRIMER		MATT / PRIMER		
	Thickness (mm)	2	3	2	3
	Panel dimensions (mm)				
lyx® Bond BASIC alu. 0.21/0.21 white	1500 x 3050				
	1500 x 4050				
	2000 x 3050			-	
lyx® Bond BASIC alu. 0.21/0.21 white digital	1500 x 3050	-	-		
	1500 x 4050				
	2000 x 3050	-	-	-	
lyx® Bond BASIC alu. 0.21/0.21 silver brush	1500 x 4050				

● – components □ – on request

Product	GLOSS / GLOSS		GLOSS / MATT		
	Thickness (mm)	2	3	2	3
	Panel dimensions (mm)				
lyx® Bond BASIC alu. 0.21/0.21 white/white	1500 x 3050				
	1500 x 4050				
lyx® Bond BASIC alu. 0.21/0.21 white/silver	1250 x 3050			-	-
	1500 x 3050				
	1500 x 4050			-	-
lyx® Bond BASIC alu. 0.21/0.21 colour/colour	1500 x 3050				
	1500 x 4050				

Product	GLOSS / GLOSS			GLOSS / MATT	
	Thickness (mm)	2	3	2	3
	Panel dimensions (mm)				
lyx® Bond alu. 0.3/0.30 white/white	1500 x 3050 1500 x 4050	-	□	-	●
lyx® Bond alu. 0.3/0.30 white/silver	1500 x 3050 1500 x 4050	-	□	-	□
lyx® Bond alu. 0.3/0.30 colour/colour	1500 x 3050 1500 x 4050	-	□	-	□
lyx® Bond alu. 0.3/0.30 white/silver	2000 x 4050	-	●	-	□
lyx® Bond alu. 0.3/0.30 black/black	2000 x 4050	-	□	-	●

● – components □ – on request



Advantages

- ➔ Low weight • High rigidity • Flat surface
- Rich palette of colours, surface finishes and formats
- No delamination-related issues

Applications

- ➔ **ADVERTISING**
Flat advertising surfaces • Trade fair stand structures
• Interior design and decoration • Printing media
• Advertising boards • Advertising pylons
- ➔ **CONSTRUCTION**
Interior façades of exclusive surfaces
• Finishing elements for shops and commercial stands
- ➔ **INDUSTRY**
Communication labelling elements

DIBOND® and Hylite® composite panels

Composite panels with aluminium cladding and polyethylene cores. A consistent combination of these two materials ensures exceptional rigidity with simultaneous low weight. Such factors as a flexible aluminium alloy and the perfect surface finish of the panels make them suitable for a wide range of applications. The variety of composite panel surface finishes facilitates the use of this material in advertising, printing, construction, industry and many other related fields.

Product	Thickness (mm)	MATT / MATT			GLOSS / MATT		
		2	3	4	2	3	4
	Panel dimensions (mm)						
DIBOND® White/White White/silver	1500 x 3050	□	●	□	□	●	□
	1500 x 4050	□	□	□	□	□	□
	2050 x 3050	□	□	□	□	□	□
	2050 x 4050	□	□	□	□	□	□
DIBOND® FR White/White	1500 x 3050	□	□	□	-	-	-
	1500 x 4050	□	□	□	-	-	-
DIBOND® Black/Black other colours*	1500 x 3050	□	□	□	□	□	□
	1500 x 4050	□	□	□	□	□	□
	2050 x 3050	□	□	□	□	□	□
	2050 x 4050	□	□	□	□	□	□
Dibond® Butlerfinish® (gold, steel)	1500 x 3050	□	●	□	-	-	-
Dibond® Butlerfinish® (silver)	1500 x 4050	□	●	□	-	-	-
Dibond® Mirror (silver)	1250 x 3050	-	-	-	□	●	□
Dibond® Mirror (gold ⁽¹⁾ , antracyt ⁽¹⁾)	1250 x 3050	-	-	-	-	□	□
Dibond® Structure	1500 x 3050	□	●	□	-	-	-

⁽¹⁾ for indoor applications only

Product	Thickness (mm)	1,2	2
	Panel dimensions (mm)		
HYLITE® raw aluminium, protected with film on one side	1540 x 3000	□	□
HYLITE® raw aluminium, coated, protected with film on both sides	1540 x 3000	●	●

● – components □ – on request

Advantages

- ➔ Perfect surface smoothness • Exclusive surface finish
- Susceptible to machining • Resistance to chemicals
- Outstanding material weight-to-rigidity ratio
- High resistance to colour fading under the influence of UV radiation • Wide range of colours and sizes
- No delamination-related issues • Excellent sound absorption properties

Applications

- ➔ **ADVERTISING**
Advertising signboards • Construction of advertising stands • Printing media • Shop interior design
• Advertising pylons • Lightboxes and illuminated ads
- ➔ **CONSTRUCTION**
Interior façades of exclusive surfaces
• Finishing elements for shops and commercial stands



KAPA® cardboard-foamboard panels

KAPA® line – light foamboard panels, cladding made of pigmented cardboard coated on one side Also available 15 – 20 mm thickness versions.

KAPA® plast – light foamboard panel, cladding made of cardboard pulp coated with plastic (Primer Finish).

KAPA® color – light foamboard panel, cladding made of coloured cardboard pulp coated with plastic (two-colour finish).

KAPA® mount – light foamboard panel for laminating, cladding made of cardboard coated on one side, reinforced aluminium.

KAPA® tex – light foamboard panel, cladding similar to a canvas texture, consists of surface-pressed latex-impregnated paper with a special outer layer (Primer Finish).

KAPA® bright – light foamboard panel with a polyurethane core Bright white cladding made of paper without wood content, with a matt finish.

KAPA® premium – light panel with bright white polyester cladding, resembling luxury paper, with a polyurethane foam core.

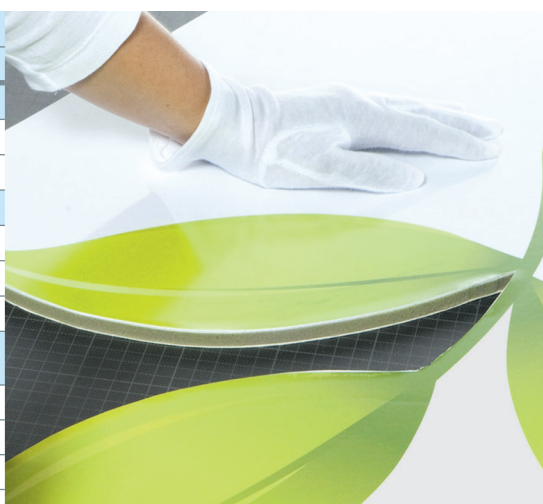
KAPA® tech – a light panel made of PUR foamboard and aluminium cladding to combine lightness and excellent rigidity The first KAPA panel classified as “flash resistant”, i.e. fire classification B, s2-d0.

KAPA® graph – panel with light white or black cladding, made of cardboard pulp and polyurethane foam core, in the same colours It is successfully used as an aesthetic, structural panel and stable modelling surface.

KAPA® fix – light foamboard panel for quick lamination, with reinforced aluminium cladding, made of cardboard coated on one side KAPA® fix comes in two different versions – one-sided or two-sided adhesive.

Product	Thickness (mm)	3 mm	5 mm	10 mm
Panel dimensions (mm)				
KAPA® graph (White)	Number of panels in a cardboard	40 pcs.	24 pcs.	8 pcs./12 pcs.
	700 x 1000	●	□	-
	1000 x 1400	-	□	-
KAPA® graph (Black)	Number of panels in a cardboard	40 pcs.	24 pcs.	8 pcs./12 pcs.
	500 x 700	-	□	-
	700 x 1000	-	●	-
KAPA® fix1	1000 x 1400	-	□	-
	Number of panels in a cardboard	40 pcs.	16pcs./18 pcs. /24 pcs.	8 pcs./12 pcs.
	210 x 297	□	●	□
	700 x 1000	□	□	□
	1000 x 1400	●	□	□
	1400 x 3000	-	□	□
KAPA® fix2	1530 x 3050	-	□	□
	Number of panels in a cardboard	40 pcs.	16pcs./18 pcs. /24 pcs.	8 pcs./12 pcs.
	700 x 1000	-	□	-
KAPA® premium	1000 x 1400	-	●	□
	1400 x 3000	-	□	□
	Number of panels in a cardboard	40 pcs.	16pcs./18 pcs. /24 pcs.	8 pcs./12 pcs.
KAPA® bright	1530 x 3050	-	□	□
	Number of panels in a cardboard	40 pcs.	16pcs./18 pcs. /24 pcs.	8 pcs./12 pcs.
	700 x 1000	-	□	-
	1000 x 1400	□	●	□
KAPA® tech	1220 x 2440	-	□	□
	1530 x 3050	-	●	□
	Number of panels in a cardboard	40 pcs.	16pcs./18 pcs. /24 pcs.	8 pcs./12 pcs.
	1250 x 2500	-	□	□
	1250 x 3050	-	□	□
KAPA® tech	1400 x 2500	-	□	□
	1400 x 3050	-	□	□

● – components □ – on request



Advantages

- ➔ A wide range of products dedicated to individual applications • Easy processing, including glueing and cutting
- Contrasting white highlights all hues while printing • Light material with the necessary rigidity • High dimensional stability • Resistance to solvents

Applications

- ➔ **ADVERTISING**
- Advertising displays • Indoor digital photo visualisations • Lightweight, complex three-dimensional structures
- Stable painting substrate with a canvas texture • Materials for short-term promotional and advertising campaigns, digital printing, display stands (POS / POP), screen printing, signboards, alternative solution to PVC foam

DISPA®, KAPA®, Foam-X® cardboard-foamboard panels

KAPA® i Foam-X® sandwich panels with cardboard cladding and polyurethane foam cores are specially designed for the exhibition and advertising industries. The material is rigid, making a perfect solution for advertising display boards, information boards, and suspended and standalone advertising stands. Its processing is simple and does not require any specialist equipment. A great solution both for glueing and printing elements.

DISPA® is a unique paper-made panel providing an ideal medium for direct UV printing. It is 100% recyclable. Such factors as optimal flatness, surface smoothness, rigidity, natural stability and low weight make it suitable for suspended ceiling-mounted ads, displays or POS/POP materials. Sold from warehouses in packages, cardboard boxes and entire pallets; various formats available.

Product	Thickness (mm)	3 mm	5 mm	10 mm
	Panel dimensions (mm)			
Foam-X®	Number of panels in a cardboard	40 pcs.	24 pcs.	12 pcs.
	700 x 1000	□	□	□
	1000 x 1400	□	●	●
	1220 x 2440	□	□	□
	1400 x 3000	□	●	●
KAPA® line	Number of panels in a cardboard	40 pcs.	18 pcs./24 pcs.	12 pcs.
	700 x 1000	□	□	□
	1000 x 1400	□	●	●
	1400 x 3000	□	●	●
	2030 x 3050	-	□	□
KAPA® plast	Number of panels in a cardboard	40 pcs.	18 pcs./24 pcs.	12 pcs.
	1000 x 1400	□	●	●
	1400 x 3000	-	●	●
	2030 x 3050	-	□	□
KAPA® tex	Number of panels in a cardboard	40 pcs.	18 pcs./24 pcs.	12 pcs.
	700 x 1000	-	●	-
	1400 x 3000	-	●	□
KAPA® Colour (grey i black)	Number of panels in a cardboard		24 pcs.	
	500 x 700	-	□	-
	700 x 1000	-	□	-
	1000 x 1400	-	●	-
KAPA® mount	Number of panels in a cardboard		16 pcs./18 pcs./ 24 pcs.	8 pcs./12 pcs.
	700 x 1000	-	□	-
	1000 x 1400	-	●	□
	1400 x 3000	-	●	□
	1530 x 3050	-	●	□

Applications

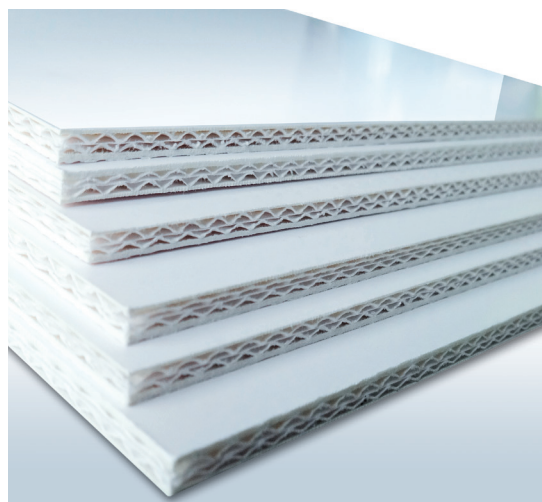


ADVERTISING

Advertising displays • Indoor digital photo visualisations
• Lightweight, complex three-dimensional structures
• Stable painting substrate with a canvas texture
• Materials for short-term promotional and advertising campaigns, digital printing, display stands (POS / POP), screen printing, sig boards, alternative solution to PVC foam

Colour	Thickness (mm)	3,8
	Panel dimensions (mm)	
DISPA®	Number of panels in a cardboard	20 pcs.
	1524 x 1016	●
	Number of panels per pallet	125/250 pcs.
	1250 x 1840	□
	1250 x 2450	●
	1524 x 1016	□
	1524 x 3048	□

● – components □ – on request



Advantages



A wide range of products dedicated to individual applications
• Easy processing, including glueing and cutting • Contrasting white highlights all hues while printing • Light material with the necessary rigidity • High dimensional stability • Resistance to solvents



DISPA® advertising panels

Ideal for short-term advertising campaigns



Excellent printing results



Easy processing



Smooth, strong,
stiff and stable



Unique pressed
paper core



Low weight



100% environmentally-friendly



sales in packages, cartons and whole pallets, various formats

Lightweight sandwich panels

STADUR Viscom - Sign SF - innovative product with a high surface hardness Double-sided PVC foam.

STADUR Viscom - Sign Easy Print – snow-white panel based on the Stadurlon material (a special type of polyolefin) to guarantees optimum print results without restrictions in terms of execution time.

SMART-X® – light plastic panels with hard cores made of polystyrene foam and solid polystyrene cladding, demonstrating high resistance to weather conditions Recommended as a light substrate for all outdoor (up to 2 years) and indoor applications, to be mounted in both vertical and horizontal orientation.

KAPA® tech – a light panel made of polyurethane foamboard and aluminium cladding to combine lightness and excellent rigidity. The first panel from the KAPA family classified as “flash resistant”, i.e. fire classification B, s2-d0.

Product	Thickness (mm)	5 mm	10 mm	15 mm	19 mm
	Panel dimensions (mm)				
STADUR Viscom - Sign SF (white/white)	2030 x 3050	●	●	□	●
	1220 x 2440				
	1530 x 3050	□	□	□	□
	2030 x 4050 ⁽¹⁾				
STADUR Viscom - Sign EasyPrint (white/white, white/black, black/black)	2030 x 3050	●	●	□	□
	1220 x 2440				
	1530 x 3050	□	□	□	□
	2030 x 4050 ⁽¹⁾				

Product	Thickness (mm)	5 mm	10 mm	19 mm
	Panel dimensions (mm)			
SMART-X® white	1220 x 2440			
	1220 x 3050	□	□	□
	2030 x 3050			

Product	Thickness (mm)	5 mm	10 mm
	Panel dimensions (mm)		
	Number of panels in a cardboard	16 pcs./ 18 pcs./ 24 pcs.	12 pcs./ 8 pcs.
KAPA® tech	1250 x 2500		
	1250 x 3050		
	1400 x 2500	□	□
	1400 x 3050		

● – components □ – on request



Advantages

- ➔ Exceptional panel lightness with high rigidity
- Dedicated to digital printing • Even material surface finish
- Susceptible to machining and cutting • High resistance to scratches
- Special panel surface ensures high-quality results in all printing processes.

Applications

- ➔ **ADVERTISING**
- Digital printing / UV digital printing • Laminated photography
- Shop furnishings, interior design • Printed advertising elements, signboards • Advertising elements for points of sale

PP cellular polypropylene panels

PP is a plastic of the smallest density among widely used polymers. It demonstrates high chemical resistance, especially at room temperature, at which it is almost completely resistant to acids, alkalis, salts and organic solvents. Cellular panels are intended for creating signboards and information boards, POS materials and systems displayed during trade fairs. They are suitable for printing and wrapping with adhesive materials.

Product	Thickness (mm)	3	5	8	8	10	10
	Grammage (g/m ²)	400	900	1500	1600	1800	2000
	Panel dimensions (mm)						
White single-cell	1400 x 2000	●	-	-	-	-	-
	3000 x 2000	□	●	□	-	□	-
	6000 x 2000	-	□	□	-	●	-
Black single-cell	1000 x 2000	□	□	-	-	□	-
White two-cell	3000 x 2000	-	-	-	□	□	-
	6000 x 2000	-	-	-	●	□	-
White three-cell	3000 x 2000	-	-	-	-	-	□
	6000 x 2000	-	-	-	-	-	□

● – components □ – on request

Advantages

- Low specific gravity
- PP is a material unaffected by water.
- Possibility to print with multiple methods
- Easy machining (bending, cutting, die-cutting)

Applications

- **ADVERTISING**
 - Information boards, signboards, ads, bags, folders and binders, covers, boxes, posters
- **CONSTRUCTION**
 - Protection of walls and floors against moisture
 - Door panels
 - Structural panels
 - Thermal insulation for buildings and equipment (coolers, dishwashers)
- **INDUSTRY**
 - Household goods
 - Pallet spacers, tree guards, protection of edges for pallet shipments
 - Internal protection of moving elements, e.g. in electric and gas cookers



Other offers

Construction



- Alucobond® panels
- Trespa® panels
- Fibre-cement panels
- ROCKPANEL® panels
- Substructure systems for façade cladding
- Aluminium profiles
- Non-flammable rock wool insulation (mineral)
- Gentas® panels
- LEXAN™ CLINIWALL™ panels
- ACREN® panels
- Parklex panels
- Cellular polycarbonate
- Solid polycarbonate
- Packaging
- Wood-derivative materials

Industry



- PP (extruded and pressed polypropylene – panels, rolls, profiles, welding wire)
- PE (extruded and pressed polyethylene – panels, rolls, profiles, welding wire)
- Hard PVC (panels, rolls, welding wire)
- Soft PVC strips
- Structural plastics PA (cast and extruded), POM, PET, PTFE (panels, rolls, sleeves)
- ABS, ABS/PMMA (thermoforming panels)
- HIPS (high-impact polystyrene panels)
- PS-GP (polystyrene panels)

Servicing of plastics



- Cutting with a table saw
- Cutting with a vertical saw
- Cutting with a shearing machine

Metals

- Carbon steel
- Stainless steel
- Non-ferrous metals
- Construction reinforcements
- Sheet pile
- Steel structures
- Welding materials
- High-quality steels
- Service

Materials Services
Materials Poland

Headquarters

thyssenkrupp Materials Poland S.A.
Grudziądzka 159, 87-100 Toruń
T: +48 56 611 94 94
biuro@tkmaterials.pl
www.thyssenkrupp-materials.pl

Distribution of plastics

Lithuania, Latvia, Estonia / Baltic States

T: +370 37 244 935
balticstates@tkmaterials.lt

Region North

87-100 Toruń
ul. Grudziądzka 159
T: +48 56 611 94 56
torun@tkmaterials.pl

60-415 Poznań

ul. Lutycka 1
T: +48 61 840 45 85
poznan@tkmaterials.pl

Region East

05-870 Błonie
ul. Kolejowa 44
T: +48 22 594 08 17
blonie@tkmaterials.pl

Region South

41-219 Sosnowiec
ul. Sokolska 68a
T: +48 32 363 91 93
sosnowiec@tkmaterials.pl

engineering.tomorrow.together.



08/2022 - 250 pcs (ECHO)