LUMEX®

LUMEX®A LUMEX®G

THE CHOICE IS CLEAR.

THE COMPLETE RANGE FOR TRANSPARENT AND TRANSLUCENT APPLICATIONS.

3A

COMPOSITES

LUMEX® A

THE BEST FOR FLAT AND COLD BENDING APPLICATIONS.

LUMEX® is the new trade mark for the flawlessly extruded A-PET and PET-G thermoplastic polyester sheets offered by 3A Composites.
3A Composites thus significantly enlarges its product portfolio with transparent and translucent sheet material.

PRODUCT

LUMEX® A are premium quality amorphous polyethylene terephthalate (A-PET) sheets. They are ideally suited to flat and arched applications. LUMEX® A shows extremely good printability with UV curing inks and is fire rated – 'difficult-to-ignite' and is suitable for use in the food industry. It is also extremely impact resistant even at sub-zero temperatures and shows excellent weather-resistance.

LUMEX® A – AT A GLANCE

LUMEX® A sheets offer a unique combination of excellent properties and occupy an unrivalled ecological position amongst fully transparent and translucent sheet materials.

- 100% recyclable within its own waste category 1 (PET)
- Tough and hard with high impact strength also at sub-zero temperatures down to -20°C
- Impeccable optical properties with a light transmission of nearly 90% for non-tinted types

- Good outdoor durability up to 4 years even for standard types
- Flame retardant rated 'difficult-to-ignite'
- Very high chemical resistance against cleaning agents, mineral oils, solvents
- Easy and fast to convert
- Good printability thanks to optimal adhesion of UV curing inks

PRODUCT APPLICATIONS

- Flexible poster coverings
- Unbreakable, retro-printed translucent signs
- Small to medium sized displays
- Slatwall magazine racks
- Cold food storage elements
- Protective glazing for machinery

PROTECTIVE FILM
- Front: blue transparent / reverse: white opal

TOLERANCES

Thicknesses	up to 1.5 mm: ±10% 1.5 to 3.0 mm: ±6% over 3.0 mm: ±5%
Widths	-0 / +3 mm
Lengths	-0 / +5 mm
Formats cut to size off line	-0 / +2 mm

PRODUCT RANGE

Product	Standard formats (WxL)	Thickness mm							
		0.8	1	1.5	2	3	4	5	6
clear-transparent		■	■	■	■	■			
clear-transparent ar (anti reflective)	1250 x 2050 mm	■	■	■	■				
opal 30%		■		■	■				
clear-transparent	1250 x 2500 mm					■		■	
clear-transparent		■	■	■	■	■	■	■	■
clear-transparent ar (anti reflective)	2050 x 3050 mm	■	■	■	■				
opal 30%		■	■	■	■				
white - black			□	□	□	□	□	□	□
bronze							□	□	□
others translucent			□	□	□	□	□	□	□
others opaque	2050 x >1250 - 6050 mm		□	□	□	□	□	□	□
clear-transparent		□	□	□	□	□	□	□	
clear-transparent ar (anti reflective)		□	□	□	□	□			
opal 30%			□	□	□	□	□	□	

■ Standard formats □ On request

LUMEX® G

THE BEST FOR HOT LINE BENDING AND ELABORATE VACUUM FORMING.

- Good resistance against breakage at low temperatures
- Weatherability up to 3 years even for standard types
- Flame retardant rated 'difficult-to-ignite'
- Good to print with UV curing inks
- Available also in widths of 2050 mm down to 10 mm thickness

PRODUCT

LUMEX® G is the proven brand on the market for premium quality modified polyethylen terephthalate (PET-G). LUMEX® G is the best choice for thermoforming and hot line bending applications. LUMEX® G sheets are flame retardant rated 'difficult-to-ignite', approved for use in the food industry and show good impact resistance. They are also excellent to print with UV curing inks and fast, convenient to convert.

LUMEX® G – AT A GLANCE

LUMEX® G sheets feature enhanced thermoforming capabilities as they do not crystallize. Vacuum forming requires no pre-drying and is therefore significantly quicker and more cost-effective.
Extremely high contour accuracy can be obtained at lower temperatures compared to traditional transparent materials.

- Excellently suited to hot line bending and vacuum forming without pre-drying (saves time and energy)
- Doesn't require pre-drying – massive energy savings
- Simplified bonding with solvent based adhesives

PRODUCT APPLICATIONS

- Thermoformed fronts for vending machines
- Vacuum-formed trays for storage and manufacturing
- Medical appliances
- Retro-printed translucent signs
- Three-dimensional POS/POP items

PROTECTIVE FILM
- Front: clear transparent / reverse: white opal

TOLERANCES

Thicknesses	up to 1.5 mm: ±10% 1.5 to 3.0 mm: ±6% over 3.0 mm: ±5%
Widths	-0 / +3 mm
Lengths	-0 / +5 mm
Formats cut to size off line	-0 / +2 mm

PRODUCT RANGE

Product	Standard formats (WxL)	0.8	1	1.5	2	3	4	5	6	8	10
clear-transparent	1250 x 2050 mm		■	■	■	■					
clear-transparent	1250 x 2500 mm		■		■	■					
clear-transparent	2050 x 3050 mm	■	■	■	■	■	■	■	■	■	■
clear-transparent uv	2050 x 3050 mm					■	■	■			
opal 30%	2050 x 3050 mm		■	■	■	■					
white - black	2050 x >1250 - 6050 mm		□	□	□	□	□	□	□		
bronze			□	□	□	□	□	□	□		
others translucent			□	□	□	□	□	□	□		
others opaque			□	□	□	□	□	□	□		
clear-transparent		□	□	□	□	□	□	□	□	□	
clear-transparent uv			□	□	□	□	□	□	□		
opal 30%			□	□	□	□	□	□	□		
opal 30% uv			□	□	□	□	□	□	□		

■ Standard formats　□ On request

LUMEX®
LUMEX®A LUMEX®G

PHYSICAL PROPERTIES

CHARACTERISTIC	TEST METHOD	UNIT	LUMEX®A VALUE	LUMEX®G VALUE
Density	DIN EN ISO 1183-1	g/cm^3	1.33	1.27
Tensile strength	DIN EN ISO 527-1/2	MPa	>55	>45
Flexural modulus	EN ISO 178	MPa	2500	2000
Impact strength, unnotched	ISO 179	kJ/m^2	no break	no break
Surface hardness	ISO 868	Shore D	50	40
Max. service temperature	–	°C	65	65
Coefficient of linear expansion	DIN EN ISO 75-2	mm/(m·K)	0.05	0.05
Light transmission	DIN 5036	%	>86	>84
Fire classification	EN 13501-1	Europe	B - s1, d0	B - s1, d0

LUMEX® sheets are produced under stringent environmental and quality control procedures. This ensures the consistently high quality of the product.

ROHS DIRECTIVE

LUMEX® sheets meet the requirements of the RoHS-2 directive of the European Union on the restriction of hazardous substances.

REACH REGULATION

LUMEX® sheets meet the requirements of the current version of the European Union chemicals regulation (REACH). In particular, LUMEX® sheets do not contain any of the substances which are listed in the current version of the ECHA Candidate List of "Substances of Very High Concern" (SVHC).

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