



ASTARIGLAS® GP



JKT 0500035

ASTARIGLAS® GP

Product

ASTARIGLAS® GP cast acrylic sheets are made from 100% virgin MMA (methyl methacrylate monomer) ensuring that the highest quality product is achieved. This ensures excellent clarity, weatherability and high strength. They have been certified by Underwriters Laboratories to UL-94HB, which is the highest flammability rating obtainable for acrylic sheet with 92% light transmission. They can be thermoformed, cut, drilled, bent, machined, engraved, polished and glued.

ASTARIGLAS® GP is made to exacting standards, offering excellent optical characteristics, light stability and low internal stress levels for consistent performance.

ASTARIGLAS® GP is available in a wide range of standard sizes and thicknesses, in colours and colourless.

Properties

ASTARIGLAS® GP is a lightweight, rigid thermoplastic material that has higher breakage resistance than standard glass and is highly resistant to weather conditions. ASTARIGLAS® GP can be easily sawed, machined, thermoformed and cemented and is ultraviolet light absorbing.

Applications

Because of its unique properties, ASTARIGLAS® GP is ideal for a wide range of applications, such as:

- Retail store displays
- Security glazing
- Industrial and residential glazing
- Luminaries
- Aquariums
- Decorative paneling
- Spectator shielding
- Skylights
- Signs



Product Offering

ASTARIGLAS® GP

Crystal Clear

Standard Offering

Colour	Colour Code	Light Transmission			Size (mm x mm)	Thickness (mm)											
						2	3	4	4.5	5	6	8	10	12	15	18	20
Clear	AN000	TR	92%	a	1220 x 1830	168	112	84	76	67	56	42	33	28	R	R	R
					1220 x 2440	128	85	65	56	51	42	32	25	21	R	R	R
					2050 x 3050	-	40	30	26	25	20	15	12	10	-	-	-
					2000 x 3000	-	-	-	-	-	-	-	-	-	-	R	R

Colour	Colour Code	Light Transmission			Size (mm x mm)	Thickness (mm)											
						2	3	4	4.5	5	6	8	10	12	15	18	20
Clear	AN000	TR	92%	a	1830 x 2440	-	57	42	38	34	28	21	17	14	R	R	R
					1270 x 3050	-	65	48	43	39	33	24	19	16	-	-	-
					1580 x 3050	-	52	39	35	31	26	20	16	13	-	-	-
					1880 x 3050	-	40	30	27	24	20	16	12	10	-	-	-

TR	Transparent
a	Constant transmission for all thicknesses
R	special request, surcharges may apply
-	Not available

On Request (additional charges may apply):

Other sizes

1000 mm x 2000 mm, 1350 mm x 2000 mm

1270 mm x 2490 mm, 1290 mm x 2540 mm

1530 mm x 2440 mm, 1880 mm x 2490 mm

Other thicknesses

Order quantity less than one pallet

PE film masking

Notes:

Please inquire about delivery periods and minimum order quantity

Product Offering

ASTARIGLAS® GP

Opals and White

Standard Offering

Colour	Colour Code	Light Transmission		Thickness (mm)												
				2	3	4	4.5	5	6	8	10	12	15	18	20	
				Number of sheets per pallet												
				For size (mm x mm) 1220 x 1830												
Opal	AN422	TL	78%	b	168	112	84	76	67	56	42	33	R	R	R	R
	AN441		55%		168	112	84	76	67	56	42	33	R	R	R	R
	AN433		44%		168	112	84	76	67	56	42	33	R	R	R	R
	AN434		43%		168	112	84	76	67	56	42	33	R	R	R	R
	AN445		37%		168	112	84	76	67	56	42	33	R	R	R	R
	AN442		32%		168	112	84	76	67	56	42	33	R	R	R	R
White	AN402		10%		168	112	84	76	67	56	42	33	R	R	R	R
				For size (mm x mm) 1220 x 2440												
Opal	AN422	TL	78%	b	128	85	65	56	51	42	32	25	R	R	R	R
	AN441		55%		128	85	65	56	51	42	32	25	R	R	R	R
	AN433		44%		128	85	65	56	51	42	32	25	R	R	R	R
	AN434		43%		128	85	65	56	51	42	32	25	R	R	R	R
	AN445		37%		128	85	65	56	51	42	32	25	R	R	R	R
	AN442		32%		128	85	65	56	51	42	32	25	R	R	R	R
White	AN402		10%		128	85	65	56	51	42	32	25	R	R	R	R
				For size (mm x mm) 2050 x 3050										(mm x mm) 2000 x 3000		
Opal	AN422	TL	78%	b	-	40	30	26	25	20	15	12	R	R	R	R
	AN441		55%		-	40	30	26	25	20	15	12	R	R	R	R
	AN433		44%		-	40	30	26	25	20	15	12	R	R	R	R
	AN434		43%		-	40	30	26	25	20	15	12	R	R	R	R
	AN445		37%		-	40	30	26	25	20	15	12	R	R	R	R
	AN442		32%		-	40	30	26	25	20	15	12	R	R	R	R
White	AN402		10%		-	40	30	26	25	20	15	12	R	R	R	R

TL	Translucent
b	Constant transmission for thicknesses 3-10mm
R	special request, surcharges may apply
-	Not available

On Request (additional charges may apply):

Other sizes

- 1350 mm x 2000 mm
- 1270 mm x 2490 mm, 1290 mm x 2540 mm
- 1530 mm x 2440 mm, 1830 mm x 2440 mm, 1880 mm x 2490 mm
- 1270 mm x 3050 mm, 1580 mm x 3050 mm

Other thicknesses

- Order quantity less than one pallet
- PE film masking

Notes:

Please inquire about delivery periods and minimum order quantity

Product Offering

ASTARIGLAS® GP

Colours (page 1 of 4)

Standard Offering

Colour	Colour Code	Light Transmission	Thickness (mm)															
			2	3	4	4.5	5	6	8	10	12	15	18	20				
			Number of sheets per pallet															
Transparent Colours																		
For size (mm x mm) 1220 x 1830																		
Amber	AN202	TR	75%	a	168	112	84	76	67	56	42	33	R	R	R	R		
Blue	AN310		87%		168	112	84	76	67	56	42	33	R	R	R	R	R	
	AN300		80%		168	112	84	76	67	56	42	33	R	R	R	R	R	
	AN301		64%		168	112	84	76	67	56	42	33	R	R	R	R	R	
	AN302		41%		168	112	84	76	67	56	42	33	R	R	R	R	R	
Green	AN304		91%		168	112	84	76	67	56	42	33	R	R	R	R	R	
	AN315		83%		168	112	84	76	67	56	42	33	R	R	R	R	R	
	AN362		39%		168	112	84	76	67	56	42	33	R	-	-	-	-	
	AN363		78%		168	112	84	76	67	56	42	33	R	-	-	-	-	
Red	AN101		74%		168	112	84	76	67	56	42	33	R	-	-	-	-	
	AN102		33%		168	112	84	76	67	56	42	33	R	-	-	-	-	
Violet	AN370		84%		168	112	84	76	67	56	42	33	R	R	R	R	R	
	AN373		42%		168	112	84	76	67	56	42	33	R	R	R	R	R	
Yellow	AN212		78%		168	112	84	76	67	56	42	33	R	R	R	R	R	
For size (mm x mm) 1220 x 2440																		
Amber	AN202		TR		75%	a	128	85	65	56	51	42	32	25	R	R	R	R
Blue	AN310	87%		128	85		65	56	51	42	32	25	R	R	R	R	R	
	AN300	80%		128	85		65	56	51	42	32	25	R	R	R	R	R	
	AN301	64%		128	85		65	56	51	42	32	25	R	R	R	R	R	
	AN302	41%		128	85		65	56	51	42	32	25	R	R	R	R	R	
Green	AN304	91%		128	85		65	56	51	42	32	25	R	R	R	R	R	
	AN315	83%		128	85		65	56	51	42	32	25	R	R	R	R	R	
	AN362	39%		128	85		65	56	51	42	32	25	R	-	-	-	-	
	AN363	78%		128	85		65	56	51	42	32	25	R	-	-	-	-	
Red	AN101	74%		128	85		65	56	51	42	32	25	R	-	-	-	-	
	AN102	33%		128	85		65	56	51	42	32	25	R	-	-	-	-	
Violet	AN370	84%		128	85		65	56	51	42	32	25	R	R	R	R	R	
	AN373	42%		128	85		65	56	51	42	32	25	R	R	R	R	R	
Yellow	AN212	78%		128	85		65	56	51	42	32	25	R	R	R	R	R	

TR	Transparent
a	Constant transmission for all thicknesses
R	Special request, surcharges apply
-	Not available

On Request (additional charges may apply):

Other sizes

1350 mm x 2000 mm

1270 mm x 2490 mm, 1290 mm x 2540 mm

1830 mm x 2440 mm, 1880 mm x 2490 mm

2050 mm x 3050 mm

Other thicknesses

Order quantity less than one pallet

PE film masking

Notes:

Please inquire about delivery periods and minimum order quantity

Product Offering

ASTARIGLAS® GP

Colours (page 2 of 4)

Standard Offering

Colour	Colour Code	Light Transmission	Thickness (mm)													
			2	3	4	4.5	5	6	8	10	12	15	18	20		
Number of sheets per pallet																
Tinted Colours																
For size (mm x mm) 1220 x 1830																
Bronze	AN571	TR	72%	a	168	112	84	76	67	56	42	33	R	R	R	R
	AN332		22%		168	112	84	76	67	56	42	33	R	R	R	R
	AN584		12%		168	112	84	76	67	56	42	33	R	-	-	-
Grey	AN512		16%		168	112	84	76	67	56	42	33	R	-	-	-
	AN531		31%		168	112	84	76	67	56	42	33	R	-	-	-
	AN538		55%		168	112	84	76	67	56	42	33	R	-	-	-
	AN560		35%		168	112	84	76	67	56	42	33	R	-	-	-
AN507	45%		168		112	84	76	67	56	42	33	R	-	-	-	
For size (mm x mm) 1220 x 2440																
Bronze	AN571	TR	72%	a	128	85	65	56	51	42	32	25	R	R	R	R
	AN332		22%		128	85	65	56	51	42	32	25	R	R	R	R
	AN584		12%		128	85	65	56	51	42	32	25	R	-	-	-
Grey	AN512		16%		128	85	65	56	51	42	32	25	R	-	-	-
	AN531		31%		128	85	65	56	51	42	32	25	R	-	-	-
	AN538		55%		128	85	65	56	51	42	32	25	R	-	-	-
	AN560		35%		128	85	65	56	51	42	32	25	R	-	-	-
AN507	45%		128		85	65	56	51	42	32	25	R	-	-	-	

TR	Transparent
a	Constant transmission for all thicknesses
R	Special request, surcharges apply
-	Not available

On Request (additional charges may apply):

Other sizes

1350 mm x 2000 mm
 1270 mm x 2490 mm, 1290 mm x 2540 mm
 1830 mm x 2440 mm, 1880 mm x 2490 mm
 2050 mm x 3050 mm

Other thicknesses

Order quantity less than one pallet
 PE film masking

Notes:

Please inquire about delivery periods and minimum order quantity

Product Offering

ASTARIGLAS® GP

Colours (page 3 of 4)

Standard Offering

Colour	Colour Code	Light Transmission	Thickness (mm)													
			2	3	4	4.5	5	6	8	10	12	15	18	20		
			Number of sheets per pallet													
Translucent and Opaque Colours																
			For size (mm x mm) 1220 x 1830													
Black	AN502	OP	0%	a	168	112	84	76	67	56	42	33	R	R	R	R
Blue	AN324	TL	51%	b	168	112	84	76	67	56	42	33	R	-	-	-
	AN327		17%		168	112	84	76	67	56	42	33	R	R	R	R
	AN322		13%		168	112	84	76	67	56	42	33	R	-	-	-
	AN835		10%		168	112	84	76	67	56	42	33	R	R	R	R
Green	AN347	TL	11%	b	168	112	84	76	67	56	42	33	R	R	R	R
	AN348		8%		168	112	84	76	67	56	42	33	R	R	R	R
	AN357		24%		168	112	84	76	67	56	42	33	R	-	-	-
	AN367		29%		168	112	84	76	67	56	42	33	R	-	-	-
Red	AN100	TL	49%	b	168	112	84	76	67	56	42	33	-	-	-	-
	AN115		63%		168	112	84	76	67	56	42	33	R	-	-	-
	AN128		30%		168	112	84	76	67	56	42	33	R	-	-	-
	AN136		30%		168	112	84	76	67	56	42	33	R	-	-	-
Violet	AN377	TL	25%	b	168	112	84	76	67	56	42	33	R	-	-	-
Brown	AN814	OP	0%	a	168	112	84	76	67	56	42	33	R	-	-	-
Grey	AN504	OP	2%	a	168	112	84	76	67	56	42	33	-	-	-	-
Ivory	AN801	OP	21%	a	168	112	84	76	67	56	42	33	R	-	-	-
Yellow	AN215	TL	52%	b	168	112	84	76	67	56	42	33	R	-	-	-
	AN235		41%		168	112	84	76	67	56	42	33	R	-	-	-
	AN478		27%		168	112	84	76	67	56	42	33	R	-	-	-
Orange	AN266	TL	15%	b	168	112	84	76	67	56	42	33	R	-	-	-
			For size (mm x mm) 1220 x 2440													
Black	AN502	OP	0%	a	128	85	65	56	51	42	32	25	R	R	R	R
Blue	AN324	TL	51%	b	128	85	65	56	51	42	32	25	R	-	-	-
	AN327		17%		128	85	65	56	51	42	32	25	R	R	R	R
	AN322		13%		128	85	65	56	51	42	32	25	R	-	-	-
	AN835		10%		128	85	65	56	51	42	32	25	R	R	R	R
Green	AN347	TL	11%	b	128	85	65	56	51	42	32	25	R	R	R	R
	AN348		8%		128	85	65	56	51	42	32	25	R	R	R	R
	AN357		24%		128	85	65	56	51	42	32	25	R	-	-	-
	AN367		29%		128	85	65	56	51	42	32	25	R	-	-	-
Red	AN100	TL	49%	b	128	85	65	56	51	42	32	25	-	-	-	-
	AN115		63%		128	85	65	56	51	42	32	25	R	-	-	-
	AN128		30%		128	85	65	56	51	42	32	25	R	-	-	-
	AN136		30%		128	85	65	56	51	42	32	25	R	-	-	-
Violet	AN377	TL	25%	b	128	85	65	56	51	42	32	25	R	-	-	-
Brown	AN814	OP	0%	a	128	85	65	56	51	42	32	25	R	-	-	-
Grey	AN504	OP	2%	a	128	85	65	56	51	42	32	25	-	-	-	-
Ivory	AN801	OP	21%	a	128	85	65	56	51	42	32	25	R	-	-	-
Yellow	AN215	TL	52%	b	128	85	65	56	51	42	32	25	R	-	-	-
	AN235		41%		128	85	65	56	51	42	32	25	R	-	-	-
	AN478		27%		128	85	65	56	51	42	32	25	R	-	-	-
Orange	AN266	TL	15%	b	128	85	65	56	51	42	32	25	R	-	-	-

TL	Translucent
OP	Opaque
a	Constant transmission for all thicknesses
b	Constant transmission for thicknesses 3-10mm
R	Special request, surcharges apply
-	Not available

On Request (additional charges may apply):
 Other sizes
 1350 mm x 2000 mm
 1270 mm x 2490 mm, 1290 mm x 2540 mm
 1830 mm x 2440 mm, 1880 mm x 2490 mm
 2050 mm x 3050 mm

Other thicknesses
 Order quantity less than one pallet
 PE film masking

Notes:
 Please inquire about delivery periods and minimum order quantity

Product Offering

ASTARIGLAS® GP

Colours (page 4 of 4)

Standard Offering

Colour	Colour Code	Light Transmission		Thickness (mm)								
				2	3	4	4.5	5	6	8	10	
Number of sheets per pallet												
Fluorescent Colours												
For size (mm x mm) 1220 x 1830												
Blue	AN992	TR	87%	a	168	112	84	76	67	56	42	33
Green	AN993		84%		168	112	84	76	67	56	42	33
Pink	AN269		77%		168	112	84	76	67	56	42	33
Red	AN267	TL	41%	b	168	112	84	76	67	56	-	-
Orange	AN265	TR	78%	a	168	112	84	76	67	56	42	33
For size (mm x mm) 1220 x 2440												
Blue	AN992	TR	87%	a	128	85	65	56	51	42	32	25
Green	AN993		84%		128	85	65	56	51	42	32	25
Pink	AN269		77%		128	85	65	56	51	42	32	25
Red	AN267	TL	41%	b	128	85	65	56	51	42	-	-
Orange	AN265	TR	78%	a	128	85	65	56	51	42	32	25

TR	Transparent
TL	Translucent
a	Constant transmission for all thicknesses
b	Constant transmission for thicknesses 3-10mm
-	Not available

On Request (additional charges may apply):

Other sizes

- 1350 mm x 2000 mm
- 1270 mm x 2490 mm, 1290 mm x 2540 mm
- 1830 mm x 2440 mm, 1880 mm x 2490 mm
- 2050 mm x 3050 mm

Other thicknesses

- Order quantity less than one pallet
- PE film masking

Notes:

Please inquire about delivery periods and minimum order quantity

Warranty

ASTARIGLAS® GP - Clear Sheet

10 Years Limited Warranty

Astari Niagara Internasional hereby warrants that for a period of ten years ASTARIGLAS® clear acrylic sheet will comply in service with the performance specifications as follows:

1. Light Transmission

The light transmission for clear ASTARIGLAS® sheet will not be less than 85%. The light transmission is measured by standard method of ASTM D 1003 on cleaned, unscratched and polished flat sample taken from the exposed sheet.

2. Modulus of Elasticity

The modulus of elasticity of ASTARIGLAS® sheet will not be less than 2500 MPa as delivered and for ten years after delivery. The testing method is in accordance with ISO 178 measured on specimens removed from the exposed installation.

3. Tensile Strength

The tensile strength of ASTARIGLAS® sheet will not be less than 50 MPa as delivered and for ten years after delivery. The testing method is in accordance with ISO R 527 measured on specimens removed from the exposed installation.

CONDITIONS OF WARRANTY

1. The warranty period is ten years from the original date of purchase of ASTARIGLAS® clear acrylic sheet.

2. The warranty covers the quality of the sheets as delivered and in accordance with the following conditions :

2.1 The sheets should be stored, handled, transported, used, cleaned, machined and installed in accordance with the manufacturer's instructions.

2.2 The warranty does not cover any failure attributable to causes not usually associated with the normal use of ASTARIGLAS® acrylic sheet and in particular does not apply to harm caused by chemical agent, cleaning fluids, unsuitable sealants or decorative material.

2.3 The warranty does not cover sheets that have been exposed to corrosive materials and environments.

2.4 This warranty does not cover sheets that have been exposed to artificial light sources emitting intense amounts of UVB or higher energy radiation.

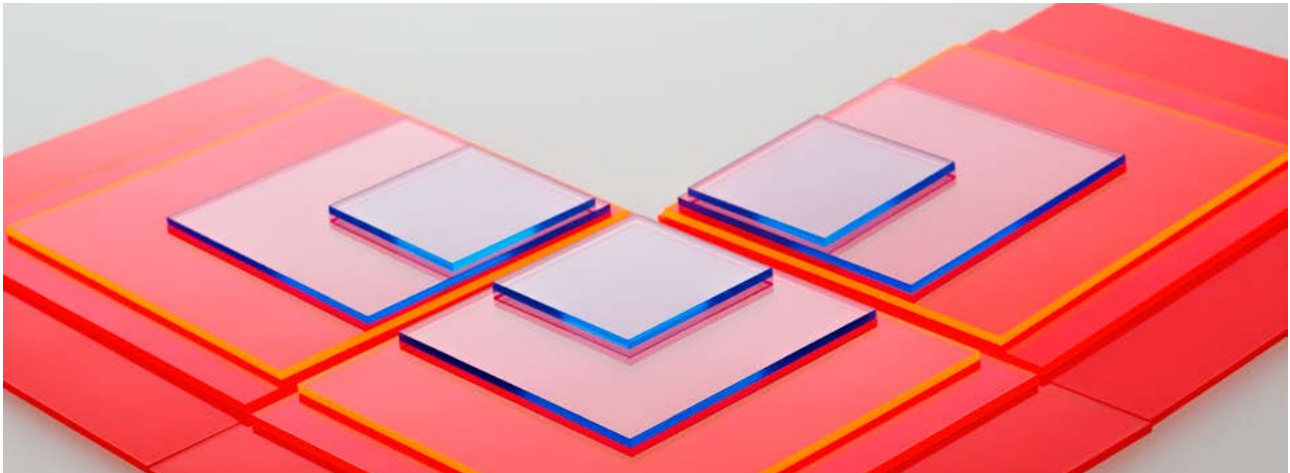
3. Astari Niagara Internasional shall have no liability under any circumstances for the cost of removal of defective sheets, or the installation of the replacement sheets, or for any consequential or incidental damage, loss or expenses of any kind whatsoever, including but not limited to injury to persons or property, loss of the use of the products, loss of profits, loss of goodwill, claims by clients of the customer (initial purchaser).

4. This warranty does not cover damage or failure by misuse, abuse or negligence, nor does it apply to sheets upon which repairs or alterations have been made other than by an authorized representative of Astari Niagara Internasional.

5. In order to make claim under this warranty, the customer shall produce a written notice accompanied by the original invoice from a seller showing the name and address, date of purchase, full product type and quantity to Astari Niagara Internasional within thirty days of discovery such defect or failure. Astari Niagara Internasional must be permitted without delay to inspect the defect and its potential causes on site or to have another party to do so on Astari Niagara Internasional's behalf. Any claim must be lodged before the end of warranty period.

6. In all terms and other conditions herein are fulfilled in such that the customer has a valid claim, Astari Niagara Internasional will replace the defective sheet products ex works (plant). If the equivalent replacement material is no longer manufactured or supplied, the customer will receive a refund of the original purchase price. No other or further rights or claims of any kind shall be available hereunder.

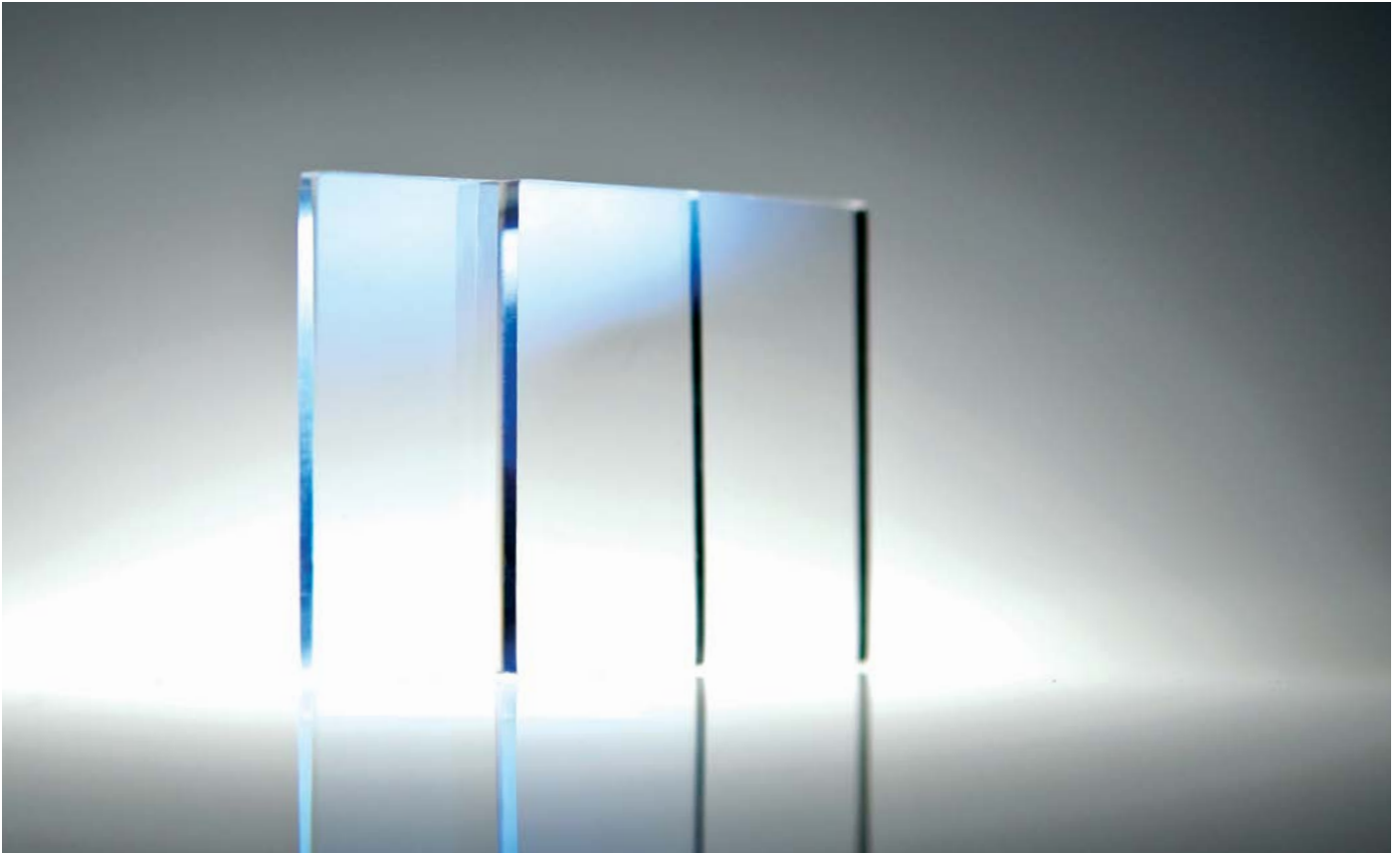
ASTARIGLAS®







ASTARIGLAS® GP



® = registered trademark. ASTARIGLAS® is a registered trademark of PT. Astari Niagara Internasional, Jakarta, Indonesia.

Certified to ISO 9001

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

PT. Astari Niagara Internasional

Dipo Tower, 10th Floor, Jl. Jend. Gatot Subroto Kav. 50-52

Jakarta 10260, Indonesia

Phone: +62 21 3006 0080 / 81

Fax: +62 21 3006 0082

Email: info@id.astariglobal.com

www.astariglobal.com