

ASTARIGLAS®



ECO CAST



HIGH QUALITY  
RECYCLED AND RECYCLABLE  
CAST ACRYLIC SHEET



Clearly  
Friendly

ASTARIGLAS® ECO CAST

*MADE FROM HIGH PURITY DMMA EXCLUSIVELY PRODUCED BY ASTARI*

# ASTARIGLAS® ECO CAST

## PT ASTARI NIAGARA INTERNASIONAL

Astari Niagara Internasional is one of the world's largest cast acrylic manufacturers, the pioneer of cast acrylic sheets in Indonesia, with market coverage in 60 countries and 350 cities globally.

"Sustainable" is one of our company values.

Presenting to you: ASTARIGLAS® ECO CAST, our latest innovation, as well as our commitment and participation in world sustainability.

Our Depolymerised Methyl Methacrylate (DMMA) plant uses innovative and state-of-the-art technology, through de-polymerisation and distillation processes, to achieve the purity equivalent to virgin MMA. This makes ASTARI one of the first companies in Asia to have the capability of producing superior quality recycled cast acrylic sheets.

In ASTARI, we understand the importance of producing only high-quality products. We produce the Depolymerised MMA in our own facility in order to ensure only selected PMMA scrap materials are used to produce DMMA, the raw material for ASTARIGLAS® ECO CAST.



# ASTARIGLAS® ECO CAST



Today, sustainability is not just a concept but a way of living. The circular economy is an integral part of the concept. The idea of reducing, reusing, and recycling materials is a more productive and efficient way compared to the make-take-dispose approach and certainly more responsible.

In ASTARI, we use the circular economy concept to bring out our new innovation. Cast acrylic sheet is a performance plastic which, by design, can be recycled. In the Cradle to Cradle (C2C) concept, we use the acrylic waste from our own post-industrial scrap, our domestic customers and also from local post-consumer waste material. The recovered waste is then Depolymerised and distilled in our facility to produce high quality and high purity Depolymerised Methyl Methacrylate (DMMA), also known as Recycled Methyl Methacrylate (RMMA), which is the primary raw material for ASTARIGLAS® ECO CAST.

The usage of DMMA as the main raw material reduces the use of fossil-based virgin MMA, the usual primary resource. Reducing waste that ends up in landfills or incineration further reduces the carbon footprint of our products.

In the concept of sustainability, ASTARIGLAS® ECO CAST sheets are recycled and reused repeatedly. Not only are the sheets recycled, but the protective paper and film masking are both recyclable.

# ASTARIGLAS® ECO CAST

## Product

ASTARIGLAS® ECO CAST is a new innovation of high quality recycled and recyclable cast acrylic sheets. We use very high purity ( $\geq 99\%$ ) Depolymerised-MMA (DMMA) as raw material exclusively made in our own facility to produce high quality recycled and recyclable cast acrylic sheets with the equal quality as cast acrylic sheets produced from virgin MMA.

ASTARIGLAS® ECO CAST is made of premium quality DMMA and can be recycled repeatedly without losing its important physical properties. ASTARIGLAS® ECO CAST sheet has the same optical, mechanical, and physical properties as cast acrylic sheet made from virgin MMA.

ASTARIGLAS® ECO CAST provides superior quality in optical clarity, weatherability, physical properties and chemical resistance, bringing the concept of recycled acrylic sheets to the next level.

The quality, fabrication, and durability of ASTARIGLAS® ECO CAST are identical to ASTARIGLAS® GP cast acrylic sheet.

## Benefit of using ASTARIGLAS® ECO CAST

- Environmental friendly product
- $>92\%$  light transmission
- Optically Identical to ASTARIGLAS® GP Crystal Clear and no yellowing
- Easy to process and fabricate
- Outstanding indoor and outdoor weatherability

## Applications

ASTARIGLAS® ECO CAST is a versatile high quality recycled and recyclable cast acrylic sheet. They are easily fabricated in all kinds of machining-CNC router and laser cutting, hot bending, solvent and polymerisable adhesives bonding, thermoforming, polishing, and digital flatbed printing.

It is a brilliant choice for:

- POP Displays
- Cosmetic Displays
- Signages



## ASTARIGLAS® ECO CAST

Certification:  
ISO 9001-2015 certified

Compliances:  
ASTARIGLAS® ECO CAST complies to ISO 7823.1  
ASTARIGLAS® ECO CAST complies to RoHs3  
ASTARIGLAS® ECO CAST complies to REACH  
ASTARIGLAS® ECO CAST complies to CAL Prop 65  
ASTARIGLAS® ECO CAST is free of VOC's and HFC



# ASTARIGLAS® ECO CAST

## Crystal Clear

Colour	Colour Code	Light Transmission		Size (mm x mm)	Thickness (mm)							
					Pressure-Sensitive Paper Masking					Number of Sheets per pallet		
					3	4	4,5	5	6			
Crystal Clear	EC000	TR	>92%	1220 x 2440	85	65	56	51	42	32	25	21

## Opal & White

Colour	Colour Code	Light Transmission		Size (mm x mm)	Thickness (mm)					
					Pressure-Sensitive Paper Masking			Number of Sheets per pallet		
					3	4	4,5			5
Opal	EC422	TL	78%	b	1220 x 2440	85	65	56	51	42
	EC430		56%		1220 x 2440	85	65	56	51	42
	EC434		43%		1220 x 2440	85	65	56	51	42
	EC445		37%		1220 x 2440	85	65	56	51	42
	EC442		32%		1220 x 2440	85	65	56	51	42
White	EC402	TL	10%	b	1220 x 2440	85	65	56	51	42
	EC401		8%		1220 x 2440	85	65	56	51	42

## Transparent Colours

Colour	Colour Code	Light Transmission		Size (mm x mm)	Thickness (mm)					
					Pressure-Sensitive Paper Masking			Number of Sheets per pallet		
					3	4	4,5			5
Green	EC304	TR	91%	a	1220 x 2440	85	65	56	51	42
	EC315		83%		1220 x 2440	85	65	56	51	42
	EC363		78%		1220 x 2440	85	65	56	51	42
	EC362		39%		1220 x 2440	85	65	56	51	42
Blue	EC310	TR	87%	a	1220 x 2440	85	65	56	51	42
	EC300		80%		1220 x 2440	85	65	56	51	42
	EC301		64%		1220 x 2440	85	65	56	51	42
	EC302		41%		1220 x 2440	85	65	56	51	42
Violet	EC370	TR	84%	a	1220 x 2440	85	65	56	51	42
	EC373		42%		1220 x 2440	85	65	56	51	42
Red	EC101	TR	74%	a	1220 x 2440	85	65	56	51	42
	EC102		33%		1220 x 2440	85	65	56	51	42
Amber	EC202	TR	75%	a	1220 x 2440	85	65	56	51	42
Yellow	EC212	TR	78%	a	1220 x 2440	85	65	56	51	42

# ASTARIGLAS® ECO CAST

## Tinted Colours

Colour	Colour Code	Light Transmission		Size (mm x mm)	Thickness (mm)					
					Pressure-Sensitive Paper Masking					
					3	4	4,5	5	6	
Number of Sheets per pallet										
Bronze	EC571	TR	72%	a	1220 x 2440	85	65	56	51	42
	EC332		55%		1220 x 2440	85	65	56	51	42
	EC584		12%		1220 x 2440	85	65	56	51	42
Grey	EC507		45%		1220 x 2440	85	65	56	51	42
	EC560	35%	1220 x 2440	85	65	56	51	42		
	EC531	31%	1220 x 2440	85	65	56	51	42		
	EC512	16%	1220 x 2440	85	65	56	51	42		

## Translucent & Opaque Colours

Colour	Colour Code	Light Transmission		Size (mm x mm)	Thickness (mm)					
					Pressure-Sensitive Paper Masking					
					3	4	4,5	5	6	
Number of Sheets per pallet										
Green	EC367	TL	29%	b	1220 x 2440	85	65	56	51	42
	EC357		24%		1220 x 2440	85	65	56	51	42
	EC347		11%		1220 x 2440	85	65	56	51	42
	EC348		8%		1220 x 2440	85	65	56	51	42
Blue	EC324		51%		1220 x 2440	85	65	56	51	42
	EC327		17%		1220 x 2440	85	65	56	51	42
	EC322		13%		1220 x 2440	85	65	56	51	42
	EC835		10%		1220 x 2440	85	65	56	51	42
Red	EC115		63%		1220 x 2440	85	65	56	51	42
	EC136		30%		1220 x 2440	85	65	56	51	42
	EC128		28%		1220 x 2440	85	65	56	51	42
Orange	EC266		15%		1220 x 2440	85	65	56	51	42
Yellow	EC235		41%		1220 x 2440	85	65	56	51	42
	EC478		27%		1220 x 2440	85	65	56	51	42
Ivory	EC801		21%		1220 x 2440	85	65	56	51	42
Grey	EC504		2%		1220 x 2440	85	65	56	51	42
Brown	EC814	OP	0%	a	1220 x 2440	85	65	56	51	42
Black	EC502		0%		1220 x 2440	85	65	56	51	42

# ASTARIGLAS® ECO CAST

## Fluorescent Colours

Colour	Colour Code	Light Transmission		Size (mm x mm)	Thickness (mm)					
					Pressure-Sensitive Paper Masking					
					3	4	4,5	5	6	
Number of Sheets per pallet										
Blue	EC992	TR	87%	a	1220 x 2440	85	65	56	51	42
Green	EC993		84%		1220 x 2440	85	65	56	51	42
Orange	EC265		78%		1220 x 2440	85	65	56	51	42
Pink	EC269		77%		1220 x 2440	85	65	56	51	42
Red	EC267	TL	41%	b	1220 x 2440	85	65	56	51	42

- *Additional items and colours will be added to the product offering soon*

TR	Transparent
TL	Translucent
OP	Opaque
a	Constant transmission for all thicknesses
b	Constant transmission for thicknesses 3 - 6 mm

On Request (additional charges, MOQ, other conditions may apply)\*:

- Other size: 2050 mm x 3050 mm
- Other thicknesses
- Other colours
- PE film masking

\*Notes:

- Please contact our local distributor/sales representative for inquiry
- ASTARI reserves the rights to make changes without prior notice





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