

ASTARIGLAS®



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 Depolymerized Methyl Methacrylate (DMMA) plant uses innovative and state-of-the-art technology, through de-polymerization 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 Depolymerized 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 Depolymerized and distilled in our facility to produce high quality and high purity Depolymerized 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 ($\geq 99\%$) Depolymerized-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 polymerizable 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

Color	Color Code	Light Transmission		Size (inch x inch)	Thickness (inch)					
					Pressure-Sensitive Paper Masking					
					0.118"	0.177"	0.220"	0.236"	0.354"	0.472"
Number of Sheets per pallet										
Crystal Clear	EC0000	TR	>92%	48"x96"	110	73	59	55	36	27

Opal & White

Color	Color Code	Light Transmission		Size (inch x inch)	Thickness (inch)				
					Pressure-Sensitive Paper Masking				
					0.118"	0.177"	0.220"	0.236"	
Number of Sheets per pallet									
Opal	EC2447	TL	64%	b	48"x96"	110	73	59	55
	EC7328		34%			110	73	59	55
White	EC7508		8%			110	73	59	55

Transparent Colors

Color	Color Code	Light Transmission		Size (inch x inch)	Thickness (inch)			
					Pressure-Sensitive Paper Masking			
					0.118"	0.177"	0.220"	
Number of Sheets per pallet								
Blue	EC2424	TR	73%	a	48"x96"	110	73	59
	EC2069		69%			110	73	59
Green	EC3030		90%			110	73	59
	EC2111		77%			110	73	59
	EC2092		39%			110	73	59
Amber	EC2422		84%			110	73	59
Yellow	EC2208		79%			110	73	59
Red	EC2423		87%			110	73	59

Tinted Colors

Color	Color Code	Light Transmission		Size (inch x inch)	Thickness (inch)			
					Pressure-Sensitive Paper Masking			
					0.118"	0.177"	0.220"	
Number of Sheets per pallet								
Bronze	EC2515	TR	72%	a	48"x96"	110	73	59
	EC2404		51%			110	73	59
	EC2094		40%			110	73	59
	EC2412		32%			110	73	59
	EC2370		14%			110	73	59
Grey	EC2064	41%	110	73	59			
	EC2074	19%	110	73	59			

ASTARIGLAS® ECO CAST

Translucent & Opaque Colors

Color	Color Code	Light Transmission		Size (inch x inch)	Thickness (inch)			
					Pressure-Sensitive Paper Masking			
					0.118"	0.177"	0.220"	
Number of Sheets per pallet								
Red	EC2283	TL	78%	b	48"x96"	110	73	59
	EC2793		49%		48"x96"	110	73	59
	EC2157		45%		48"x96"	110	73	59
Yellow	EC2037		51%		48"x96"	110	73	59
	EC2016		39%		48"x96"	110	73	59
Green	EC2030		12%		48"x96"	110	73	59
	EC2108		3%		48"x96"	110	73	59
Blue	EC2051		44%		48"x96"	110	73	59
	EC2648		22%		48"x96"	110	73	59
	EC2114		17%		48"x96"	110	73	59
	EC2050	7%	48"x96"	110	73	59		
Ivory	EC2146	35%	48"x96"	110	73	59		
Orange	EC2119	48%	48"x96"	110	73	59		
Grey	EC5040	2%	48"x96"	110	73	59		
Brown	EC2418	OP	0%	a	48"x96"	110	73	59
Black	EC2025		0%		48"x96"	110	73	59

- Also available in size: 80"x120"
- Additional items and colors 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 0.118"- 0.236"

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

- Other thicknesses
- Other colors
- PE film masking

*Notes:

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

ASTARIGLAS® ECO CAST

Fluorescent Colors

Color	Color Code	Light Transmission		Size (inch x inch)	Thickness (inch)			
					Pressure-Sensitive Paper Masking			
					0.118"	0.177"	0.220"	
					Number of Sheets per pallet			
Blue	EC9092	TR	87%	a	48"x96"	110	73	59
Green	EC9093		84%		48"x96"	110	73	59
Pink	EC9095		77%		48"x96"	110	73	59
Orange	EC9096		63%		48"x96"	110	73	59
Yellow	EC9097		60%		48"x96"	110	73	59

- **Also available in size: 80"x120"**
- *Additional items and colors 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 0.118" - 0.236"

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

- Other thicknesses
- Other colors
- PE film masking

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