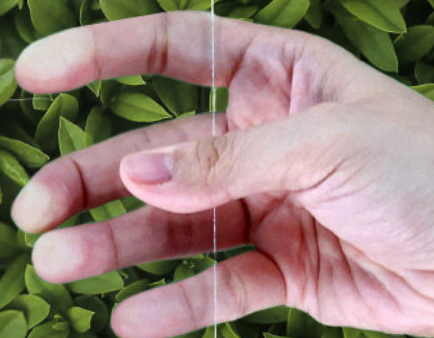


ASTARIGLAS®

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 has a certified Environmental Product Declaration (EPD)
Registration number: **S-P-06678**



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

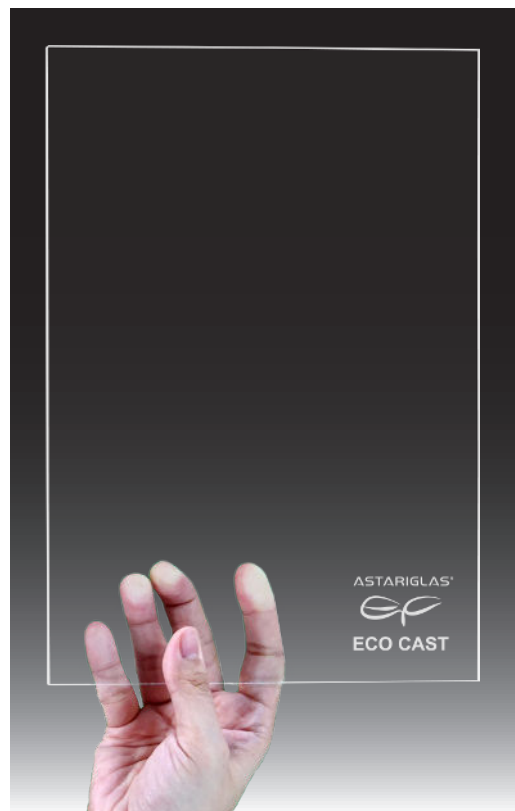
- Environmental friendly product
- >92% light transmission
- Optically Identical to ASTARIGLAS® GP Crystal Clear and no yellowing
- Easy to process and fabricate
- Outstanding indoor and outdoor weatherability

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 | | | | | | | |
| | | | | | 3 | 4 | 4,5 | 5 | 6 | 8 | 10 | 12 |
| | | | | | Number of Sheets per pallet | | | | | | | |
| 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 | | | | | |
| | | | | | 3 | 4 | 4,5 | 5 | 6 | |
| | | | | | Number of Sheets per pallet | | | | | |
| 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 | | | | | |
| | | | | | 3 | 4 | 4,5 | 5 | 6 | |
| | | | | | Number of Sheets per pallet | | | | | |
| 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 | | 87% | | 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 | | 84% | | 1220 x 2440 | 85 | 65 | 56 | 51 | 42 |
| | EC373 | | 42% | | 1220 x 2440 | 85 | 65 | 56 | 51 | 42 |
| Red | EC101 | | 74% | | 1220 x 2440 | 85 | 65 | 56 | 51 | 42 |
| | EC102 | | 33% | | 1220 x 2440 | 85 | 65 | 56 | 51 | 42 |
| Amber | EC202 | | 75% | | 1220 x 2440 | 85 | 65 | 56 | 51 | 42 |
| Yellow | EC212 | | 78% | | 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

| | | | | | Size (mm x mm) | Thickness (mm) | | | | |
|--------|----------------|--------------------|-----|---|-------------------|----------------------------------|----|-----|----|----|
| Colour | Colour Code | Light Transmission | | | | 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



ASTARIGLAS® ECO CAST

TESSEMATT S - Single Sided Satin Surface

| Colour | Colour Code | Light Transmission | | | Size (mm x mm) | Thickness (mm) | | |
|---------------|-------------|--------------------|-----|---|-------------------|----------------------------------|-----|----|
| | | | | | | Pressure-Sensitive Paper Masking | | |
| | | | | | | 3 | 4,5 | 6 |
| | | | | | | Number of Sheets per pallet | | |
| Clear | EC000ST | TR | 91% | a | 1220 x 2440 | 85 | 56 | 42 |
| Opal Ice | EC019ST | TL | 78% | b | 1220 x 2440 | 85 | 56 | 42 |
| White | EC401ST | | 5% | | 1220 x 2440 | 85 | 56 | 42 |
| Glass Green | EC3041ST | TR | 90% | a | 1220 x 2440 | 85 | 56 | 42 |
| Marine Blue | EC229ST | TL | 69% | b | 1220 x 2440 | 85 | 56 | 42 |
| Pastel Pink | EC104ST | TR | 81% | a | 1220 x 2440 | 85 | 56 | 42 |
| Lime Green | EC213ST | TL | 61% | b | 1220 x 2440 | 85 | 56 | 42 |
| Autumn Orange | EC2023ST | | 54% | | 1220 x 2440 | 85 | 56 | 42 |
| Cobalt Blue | EC3024ST | TR | 8% | a | 1220 x 2440 | 85 | 56 | 42 |
| Stone Grey | EC2332ST | | 54% | | 1220 x 2440 | 85 | 56 | 42 |
| Sephia Bronze | EC2370ST | | 14% | | 1220 x 2440 | 85 | 56 | 42 |
| Black | EC502ST | OP | 0% | b | 1220 x 2440 | 85 | 56 | 42 |

TESSEMATT DS - Double Sided Satin Surface

| Colour | Colour Code | Light Transmission | | | Size (mm x mm) | Thickness (mm) | | |
|---------------|-------------|--------------------|-----|---|-------------------|----------------------------------|-----|----|
| | | | | | | Pressure-Sensitive Paper Masking | | |
| | | | | | | 3 | 4,5 | 6 |
| | | | | | | Number of Sheets per pallet | | |
| Clear | EC000DS | TR | 90% | a | 1290 x 2540 | 85 | 56 | 20 |
| Opal Ice | EC019DS | TL | 72% | b | 1290 x 2540 | 85 | 56 | 20 |
| Glass Green | EC3041DS | TR | 89% | a | 1290 x 2540 | 85 | 56 | 20 |
| Marine Blue | EC229DS | TL | 67% | b | 1290 x 2540 | 85 | 56 | 20 |
| Pastel Pink | EC104DS | TR | 79% | a | 1290 x 2540 | 85 | 56 | 20 |
| Lime Green | EC213DS | TL | 57% | b | 1290 x 2540 | 85 | 56 | 20 |
| Autumn Orange | EC2023DS | | 52% | | 1290 x 2540 | 85 | 56 | 20 |
| Cobalt Blue | EC3024DS | TR | 7% | a | 1290 x 2540 | 85 | 56 | 20 |
| Stone Grey | EC2332DS | | 55% | | 1290 x 2540 | 85 | 56 | 20 |
| Sephia Bronze | EC2370DS | | 12% | | 1290 x 2540 | 85 | 56 | 20 |

- 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
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