

The Weaving Material



SUNPLAST™
SYNTHETIC MATERIAL

SUNPLAST™ is made of high quality synthetic fiber, solid, High Density PolyEthylene (HDPE), tensile force, washable, no fading, non-toxic, chemical resistant, UV resistant and adapt to kinds of weather.

SUNPLAST™ has amount of attractive model, colorful with many sizes and shapes, substituted for the real rattan products with environmentally friendly. Applicable to weaving all kinds of furniture

 **SUNPLAST**™ Excellent Wicker

WHO WE ARE

Proudly introduce **Belladonna** Primaraya PT, as leading manufacturer and exporter of synthetic rattan outdoor furniture **since 1989** located in **Cirebon** West Java - **Indonesia**. You can visit and check our collections at www.belladonna.id

Through our involvement in the furniture industry, we identified a market for plastic strands is as a key component in weaved furniture for both indoor and outdoor use. Related to our high and tight production In 2009 Belladonna established new division for synthetic wicker material. Located at the same area with Belladonna factory we carry exclusive brand : **SUNPLAST™**



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SYNTHETIC MATERIAL

Google Earth keyword :
Belladonna It's about wicker

With facility of many extrusion machines this enable us to have right supply to support production and to serve customer quickly, also can control quality and color consistency. We realize this main material it's too important to depend on the third party.

Belladonna is expert and experienced to furnish the summer with items made from **SUNPLAST™**. **SUNPLAST™** had proven to produce unique, exotic, naturally looks, and durable synthetic wicker, applied on various furniture such as dining chair, table, living set, sun bed, relax chair etc. The fiber with natural look from **SUNPLAST™** has created an outstanding request from our customers worldwide.

Feel the joys of luxurious the art of living with **SUNPLAST™**

More than just looking good

Due to our commitment in presenting the best quality, we are using raw material HDPE (High Density PolyEthylene) with Excellent characteristic on

- UV resistant
- Weatherproof and temperature resistant
- Strong and durable
- Environmentally friendly and non toxic
- Colourfast and scratch free
- Easy of use by weaver
- Aesthetic



A chair is not only for sitting and Belladonna is always keen on changing trends in consumer tastes. Beside we create our own synthetic wicker, also we accept customized model both color and size. Our business partners have contributed greatly to the designing and re-designing of our products following their design concept. The ultimate aim is to stay ahead in today's highly demanding markets.

We are ready to provide a 3 years UV Warranty to our customers

Color and Dimension

SUNPLAST™ provides many colors and dimensions of the synthetic wicker following customers' preference and fashion The most common dimensions available are :

Round Cord 2mm | Round Cord 2,5mm | Round Cord 3mm | Round Cord 5,3mm | Round Cord 8mm
Round Cord 10mm | Half Cord 6mm | Half Cord 12mm | Flat Peel 6mm | Flat 22mm | Flat 30mm

Any request in other colors, sizes and shapes are welcome, with special profile, texture or smooth surfaces

SUNPLAST™ mainly has 2 range of colors : Natural looks color and candy color

The swatches colors :

Natural looks color such as Smooth Brown, Banana, White Wash, Koboo Grey Wash, Straw Koboo, Natural Koboo, Stone Grey, Rustic White, Pulut White Wash



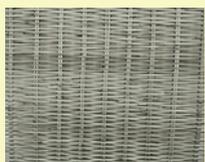
Smooth Brown



Banana



White Wash



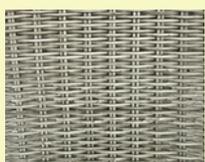
Koboo Grey Wash



Straw Koboo



Natural Koboo



Stone Grey



Rustic White

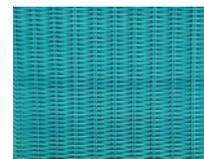


Pulut White Wash

Candy color such as Green, Turquoise, Red



Green



Turquoise



Red

Q & A

Q : What about maintenance?

A : They can simply be wiped with a damp cloth and mild detergent

Q : Is it safe to expose SUNPLAST™ to salt and chlorine?

A : SUNPLAST™ is safe to be used at the beach or at the poolside.

Q : What will happen when SUNPLAST™ is exposed to UV over an extended period of time?

A : SUNPLAST™ is designed to endure outdoor conditions such as continuous UV exposure. All SUNPLAST™ has a warranty of 3 years against material degradation due to UV exposure.

Q : What will happen to SUNPLAST™ after 3 years of outdoor exposure?

A : Probably nothing. SUNPLAST™ is designed to last considerably longer than 3 years.

Q : Will SUNPLAST™ break under normal use?

A : No – but inappropriate loading of SUNPLAST™ in certain designs can affect durability.

Q : Is SUNPLAST™ toxic?

A : The olefin used in SUNPLAST™ is not toxic and it does not contain heavy metals. Selected pigments used may contain heavy metals but are at low and safe levels for our application.

Q : Can we leave SUNPLAST™ outdoors throughout the year?

A : yes, SUNPLAST™ can be functional normally in temperatures ranging from -40 to 80 Celsius.

Q : Will SUNPLAST™ fade when exposed to outdoor conditions?

A : We started by carefully selecting the pigments that are used in SUNPLAST™. We provide a 3 years warranty against color fading

PHYSICAL PROPERTIES

| TYPE OF TEST | VALUE | UNIT | TEST METHOD |
|---------------------------|-----------|-------------------|-------------------------|
| Normal density | 950 - 955 | Kg/m ³ | ISO 1183 Method D |
| Vicat softening point | 120 - 130 | °C | ASTM D-1525-00 |
| Melting point | 130 - 135 | °C | ISO 3146 Method C |
| Elongation at break | 50 - 500 | % | ISO/R 527 Speed C |
| Tensile Strength at Yield | 42 | Mpa | ASTM D638 |
| Charpy Impact Strength | 9 - 12 | kJ/m ² | ISO 179 Type 1 Noched A |
| Flexural strength | 20.7 | Mpa | ASTM D638 |
| Glossiness | 82 | % | JIS K 7105 |

SUNPLAST™ products have been checked by certified laboratory, using international standard such as JIS , ISO and ASTM.

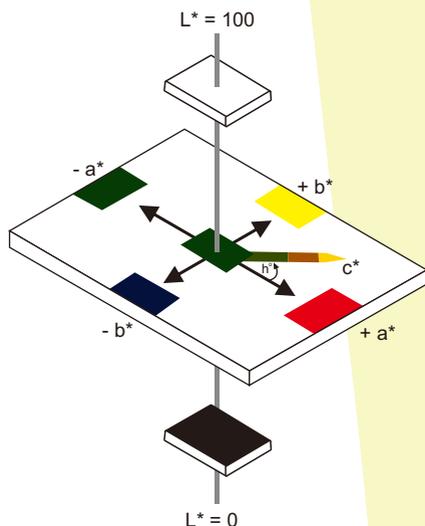
LIGHT STABILITY PERFORMANCE

Evaluation

Color change $L^*a^*b^*$ (JIS K 7105)

Standard color measurement widely used today is recommended by :

CIE (Commission Internationale de l'Eclairage) named by CIElab system, donated in L^* , a^* , and b^*



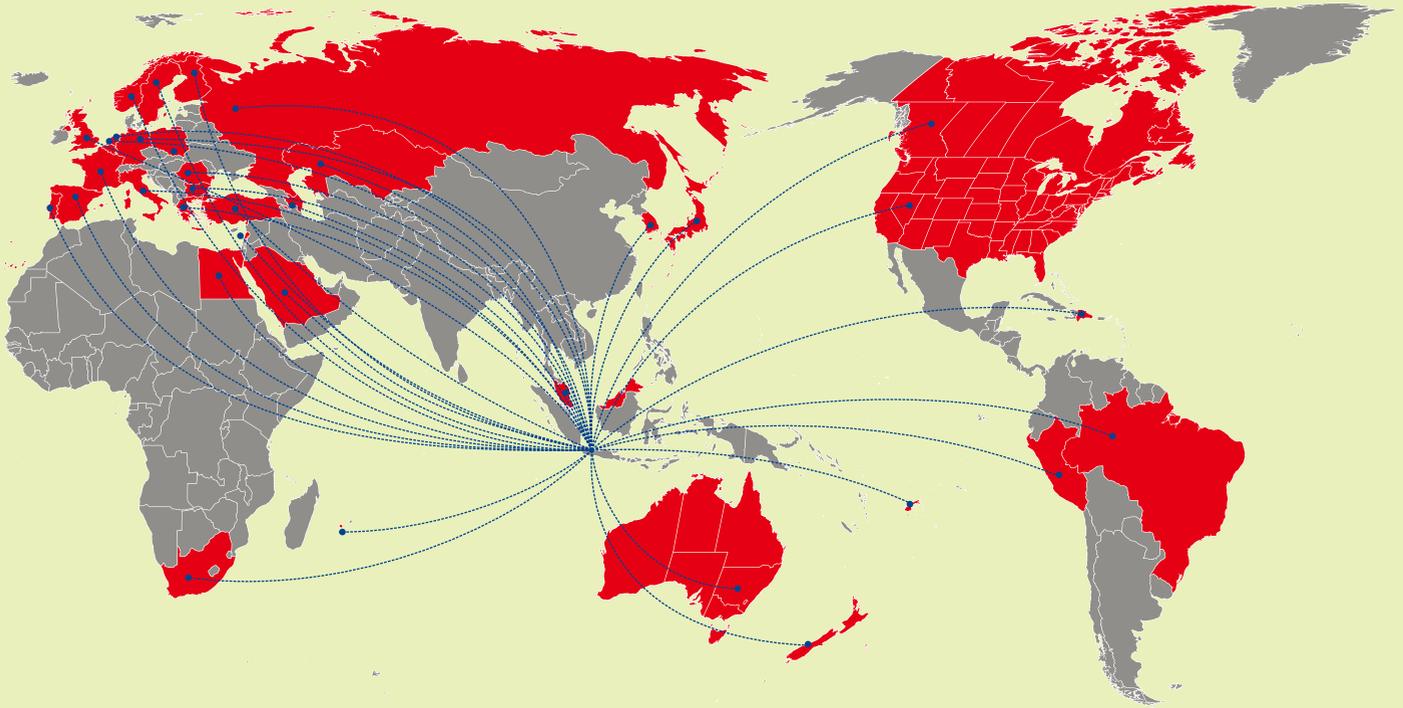
| TYPE OF TEST | RESULT |
|------------------|---|
| FTIR | FTIR spectrum of sample is completely the same to FTIR of Poly(ethylene). high density (ASTM E 1252-98) |
| Color difference | $\Delta L^* -81.8$ $\Delta a^* 4.0$ $\Delta b^* 3.5$ Color Coordinate CIELAB system (JIS K 7105) |

Market Distribution

We have good distribution track record all over the world.



Sweden, Norway, Finland, Belgium, Netherland, Germany, France, Spain, UK, Italy, Portugal, Greece, Romania, Bulgaria, Poland, Russia, Macedonia, Turkey, Azerbaijan, Kazakhstan, Canada, USA, Brazil, Peru, Dominica, New Zealand, Australia, Fiji, Reunion, Egypt, South Africa, South Korea, Japan, Saudi Arabia, Lebanon, Malaysia



Company Profile

PT. BELLADONNA PRIMARAYA

Since 1989

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Belladonna™
it's about wicker


SUNPLAST™
SYNTHETIC MATERIAL

Factory Area : 50.000 Sqm | Employee : 800 Workers | Capacity : 50 Containers / Month
Currency : US Dollars (USD) | Production Line : Aluminum / Stainless Steel / Iron / Wood
Synthetic Rattan Furniture • Natural Rattan Furniture • Cushion & Slipcover