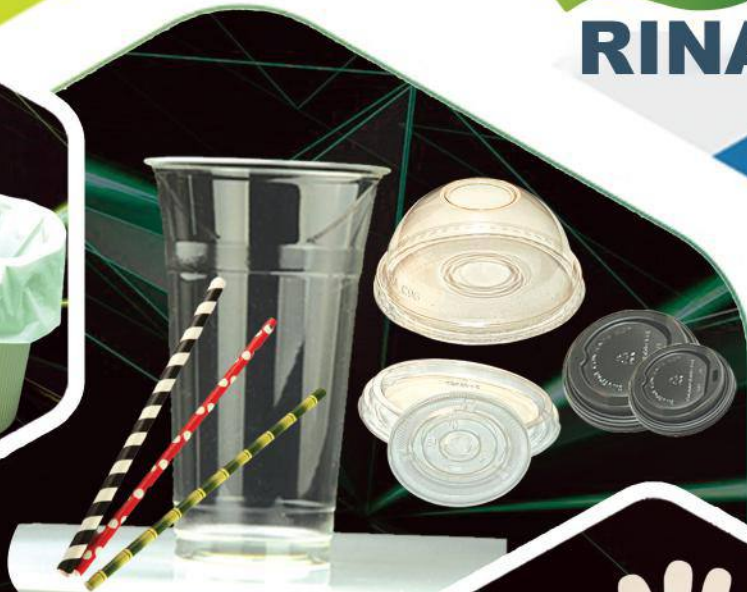




RINAB



RINAB INTERNATIONAL

Ramsay Drive, Leighton buzzard, Bedfordshire
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**"A PERFECT VACCINE
FOR WORLD'S PLASTIC
PANDEMIC"**

ABOUT US



The world is in the midst of global warming and climate change. The source of nearly every piece of plastic that exists in the world is fossil fuel. At every stage of the plastic's life, it emits greenhouse gases. Therefore, the production and lifecycle of plastic is a greater threat to the globe and humankind. Plastic—durable and cheap, it was everywhere, and everyone used it. Therefore, the growing production of plastics is accelerating the climate change. Plastic is made to last, often for 400–1000 years or more. By 2050, when plastic production is expected to have tripled, it will be responsible for up to 13% of Earth's total carbon budget.

The only way we can now address the problem and save our planet is to reduce the production and consumption of ordinary plastic, especially of the non-degradable variety, and ease the plastic waste management. With this objective a group of three polymer chemists started an eco-friendly, sustainable and low carbon emission polymer research, manufacturing and distribution group under the name “RINAB” based in UK. Our dream project aims at the production and distribution of Bio Plastics and Bio degradable and compostable plastics as an alternative to the plastics. The biodegradable plastics are manufactured from renewable raw materials or all-natural plant materials such as avocado, cassava, corn oil, soybeans, or starch. They are able to decompose naturally in the environment by when exposed to the sun's ultra-violet radiation, enzymes, bacteria, water, or wind abrasion, giving an end product that is less harmful to the environment. Biodegradable plastic's ability to naturally degrade within an organic period of 6–12 months makes it unique from other plastics, which can take hundreds or thousands of years to break down. It also decreases the waste sent to landfills or incinerators. In their manufacturing process, they save energy and emit less carbon. There are several recognized types of biodegradable plastics, Vegetable Starch, plant starch blends (like cornstarch), and cellulose-based plastics and Polyvinyl alcohol (PVAs).

More than 50 percentage of the waste and resulting GHG emissions are coming from the making and usage of plastic cutlery, packaging and wrapping items, bottles, and food containers. Therefore, our key area of focus is replacing these items with biopolymers. AL-Hazma International based in Doha will be working with the same objective by distributing and trading these items so as to save the warming world from the



RINAB

OUR PRODUCTS

We Are Manufacturers, Wholesalers And Suppliers Of 100% Compostable, Biodegradable, Water Soluble Products And Raw Materials Which Is The Best Substitute To Plastic Grocery , Carry Bags And Everyday Single Use Harmful Products.

We have the following category of products all with different approved certifications.

- ◆ **Hot and cold water soluble bags
(Medical, Hospitality and Retail use)**
- ◆ **Vegetable starch based products
(Medical, Hospitality and Retail use)**
- ◆ **Sugarcane and Cellulose products (Hospitality)**



OUR CERTIFICATIONS

We have the following certifications for different products. These are for assessing the compostability of polymers in industrial composting plants or home facilities. Also for the biodegradability of mulch films in soil for use in agriculture. We also have certifications for the food grade packaging items.





Vegetable Starch Products



Conventional plastics use non-renewable fossil fuels, and its non-biodegradability means as much as 79% of all the plastics ever made remain in environment. **RINAB** supplies **Vegetable Starch** based products and are bio-based and bio degradable or compostable polymer made from corn starch, sugar cane, cassava root and sugar beet. These plants are fermented to produce lactic acid, which then goes through the process of polymerization to create **Bio**. As a thermoplastic, it bears similarities to plastics such as polypropylene (PP), polyethylene (PE), or polystyrene (PS), and is manufactured using techniques such as extrusion, injection molding, thermoforming, and other methods such as 3D printing using **Bio** filament. **Bio** is most frequently being used as an alternative to non-bio plastics in low-stress applications like cups, cutlery, food packaging, and bags, where it is more than strong enough for a single-use. It is considered much safer for use with edibles. The bio-plastic is BPA and phthalate free, so a contamination with endocrine disruptors is not an issue. **Bio** is fully compostable (3-6 months), doesn't mean that it's going to start breaking down in your hands or as you rush back from the supply.



BIO - CUP

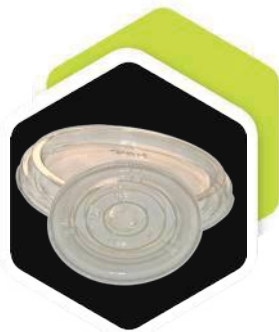
RINAB clear cup is made from vegetable starch (BIO) or cornstarch. This performs much like traditional plastic, however, the crucial benefit behind this is that they are certified biodegradable and compostable (in commercial composting facility).



BIO Saucer 2 oz
Dimension:
75 x 68 x 25mm
Pieces per carton: 2,000



BIO Saucer Lid
Dimension:
75 x 18 mm
Pieces per carton: 1,000



Lid 12/16/20 oz Flat
Dimension:
95 x 12 mm
Pieces per carton: 1,000



Lid 12/16/20 oz Dome
Dimension:
95 x 44 mm
Pieces per carton: 1,000



BIO Cup 12 oz
Dimension:
95 x 55 x 99 mm
Pieces per carton: 1,000



BIO Cup 16 oz
Dimension:
95 x 55 x 125 mm
Pieces per carton: 1,000



BIO Cup 20 oz
Dimension:
95 x 55 x 146 mm
Pieces per carton: 1,000

BIO CUTLERY

RINAB Bio cutleries are made from vegetable starch or cornstarch. This performs much like traditional plastic, however, the crucial benefit behind this is that they are certified biodegradable (in commercial composting facility).



BIO Fork

Dimension:

164 x 26 x 3 mm

Pieces per carton: 1,000

Pieces per pack: 50



BIO Knife

Dimension:

164 x 25 x 3 mm

Pieces per carton: 1,000

Pieces per pack: 50



BIO Spoon

Dimension:

164 x 35 x 3 mm

Pieces per carton: 1,000

Pieces per pack: 50



BIO Stirrer

Dimension:

2 x 160 mm

Pieces per carton: 1,000

Pieces per pack: 50

BIO BOWL



BIO Bowl - 24 oz

Dimension: 144 x 111 x 67.5 mm

Pieces per carton: 600



BIO Lid - 24 oz

Dimension: 144 x 10 mm

Pieces per carton: 600

BIO STRAW

RINAB straw is made from vegetable starch or cornstarch. This performs much like traditional plastic, however, the crucial benefit behind this is that they are certified biodegradable and compostable.

- ◆ Flexible Straws
- ◆ Bio Wrapped
Un Wrapped Straws
- ◆ Colour : Black & White
- ◆ Normal Straw

**Bio Straw - Long 6mm & 8mm
(White & Black)**

Size : 8 x 200 mm

Pieces per carton:10,000

**Bio Straw- Short 6mm & 8 mm
(White & Black)**

Size: 6 x 145 mm

Pieces per carton:10,000





BIO DEGRADABLE & COMPOSTABLE PRODUCTS



RINAB also supplies a range of other take away and packaging materials. To replace the persistent and non-degradable plastic products we have a list of bio degradable and compostable products. Degradable means that it can be degraded only by physical and biological factors (light or heat, or microbial action) and during the process of degradation; they will cause huge environmental hazards if not dealt with in time. Biodegradable refers to degradation by biological activity resulting in a decline in the relative molecular mass and eventually be decomposed into simpler compounds and mineralization of the its elements. Biodegradable products largely from renewable natural resources, to produce biodegradable materials with similar functionality to that of oil-based polymers. They have several potential benefits for greenhouse gas balances and other environmental impacts. They will add to sustainability and reduction in the environmental impact associated with disposal of oil-based polymers.

KRAFT TUBS

Brown Soup Tubs with lids

8oz, 12oz, 16oz, 26oz

(single and double coating)



KRAFT PAPER BOWLS



White bowls with lids

500ml, 750ml, 1000ml, 1100ml & 1300ml

(single and double coating)



Brown bowls with lids

500ml, 750ml, 1000ml, 1100ml & 1300ml

(single and double coating)



Salad bowls with lids

Brown & White

500ml, 750ml, 1000ml, 1100ml & 1300ml
(single and double coating)



KRAFT PAPER BAGS



Courier Bag

Brown & White

customised sizes are available as per the requirements



Shopping Bag

customised sizes are available as per the requirements

KRAFT PAPER CUPS



Paper Cups

4oz, 6oz, 7oz, 8oz
(Starch based coating)

Ice Cream Cups

4oz, 5oz, 8oz, 12oz
(Starch based coating with
printing and without printing)



CONE CUP (AIRPORT CUP)



Cone Cup

105ml, 150ml, 180ml, 200ml & 180ml
(100% natural material)

CLING FILM

Vegetable Film

Stretchable film - industrial and Machine
application cling film - food and packing grad
(Compostable & Biodegradable)



BIO - PAPER CUP



Paper cups are premium quality and sourced from sustainably managed forest (FSC certified). They are also lined with a micro-thin bioplastic layout corn starch in order to prolong the durability. These products had been certified biodegradable and compostable by international standard.



Brown Kahwa with Cornstarch Lining - 8 oz
Dimension: 80 x 55 x 90mm
Pieces per carton: 1,000



Brown Coffee cup with Cornstarch Lining - 12 oz
Dimension: 90 x 58 x 110mm
Pieces per carton: 1,000



Brown C Juice cup with Cornstarch Lining - 16 oz
Dimension: 90 x 58 x 137mm
Pieces per carton: 1,000



Cornstarch Lid (Black & White)
Different Sizes Available

BIO - PAPER BOWL



Paper Bowl are premium quality and sourced from sustainably managed forest (FSC certified). They are also lined with a micro-thin bioplastic layout corn starch in order to prolong the durability. These products had been certified biodegradable and compostable by international standard.



Soup/ Gelato Bowl with Cornstarch Lining - 16 oz
Dimension: 115 x 93 x 80 mm
Pieces per carton: 500



Soup/ Gelato Bowl with Cornstarch Lining - 24 oz
Dimension: 115 x 87 x 113 mm
Pieces per carton: 500



Cornstarch Lid
Dimension: 115 x 10 mm
Pieces per carton: 500

BIO - PAPER STRAW



Paper straws are sourced from sustainably managed forest and are FSC certified. The paper straws are highly durable and premium quality. They are also chemical free and certified as food safe by international standard. These straws will biodegrade and compost if discarded responsibly.



**Paper Straw Black design
(Short 6mm)**

Dimension: 6 x 145 mm
Pieces per carton: 10,000



BIO - BAGASSE BOX

Our tableware is made from bagasse - the dry fibrous residue left after sugarcane stalks have been crushed to extract the juice. The products have also received international certifications and come in various sizes according to your needs.



**Bagasse Food Box - Small & Big
400, 800, 1000 ml**

Small & Big - 6, 8, 10 inch
Pieces per carton: 1,000
pieces per pack : 125

OTHER COMPOSTABLE ITEMS

GARBAGE BAG (S,M,L,XL)

- Size: 18'' x 21'' x 8 Micron +/- (Small)
- Size: 30'' x 39'' x 22 Micron +/- (Medium)
- Size: 35'' x 47'' x 22 Micron +/- (Large)
- Size: 44' x 49'' x 22 Micron +/- (XL)



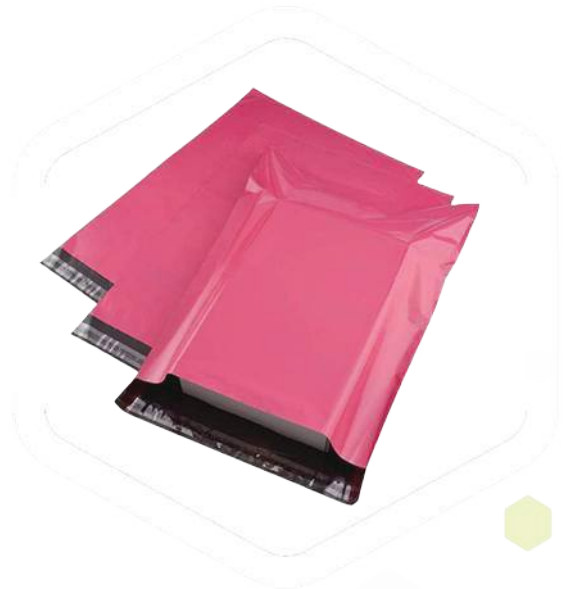
ZIPLOCK BAG

- Size: 100 x 150 mm x 0.043 MM
- Size: 120 x 170 x 0.043 mm
- Size: 160 x 220 x 0.043 mm
- Size: 300 x 400 x 0.043 mm
- Thickness : 0.043 mm
- Packing : bulk packed cartoon



COURIER BAG

- Standard
Size: A2,A3,A4, A5 - 60 Micron
- 50 pieces/bundle



GLOVES MEDIUM

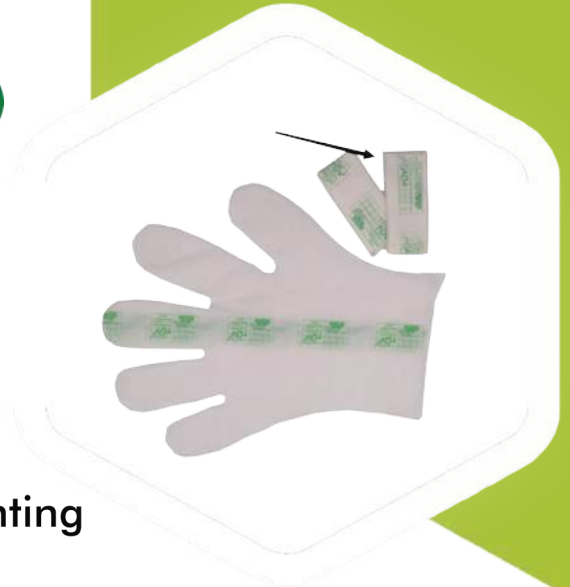


Size: 0.025 x 230 x 280 mm

Thickness : 0.025 mm

Packing : bulk packed cartoon

2pcs/outer bag,without printing



GLOVES LARGE

Size: 0.025 x 260 x 280 mm

Thickness : 0.025 mm

Packing : bulk packed cartoon

2pcs/outer bag,without printing



APRON

Colour : as required

Thickness : 70*120 cm, 18 or 20 mic

Packing : 50/100 aprons per roll in cases





WATER SOLUBLE BAGS & PRODUCTS

RINAB Hot and cold soluble bags and sheets are perfect alternatives for petroleum based plastic bags and package and are made from biobased materials such as starch casava and avocado. We are moving ahead with the mode of "less plastic, less plutened and less waste by introducing water soluble products. The key features our bags are:-



- ▲ **Biogradable & compostable within months**
- ▲ **Non-toxic**
- ▲ **High performance underload of dry weights**
- ▲ **Good oxygen barrier and anti-static properties**
- ▲ **Contain no petrochemicals**
- ▲ **Certified non GMO**
- ▲ **Customizable based on MOQ**

LAUNDRY BAG

Medium

Dimension:

40 cm x 80 cm x 40 cm micron

Load Capacity : 8-9 kg

Pieces per pack : 50

Pieces per Cartoon : 500

Weight over Cartoon : 14 kg



Large

Dimension:

40 cm x 100 cm x 40 cm micron

Load Capacity : 10 kg

Pieces per pack : 50

Pieces per Cartoon : 500

Weight over Cartoon : 19 kg



SHOPPING BAG

Griphole Bag

All Customised Sizes are available as per requirement

GROCERY BAG

T-shirt bag - Small

T-shirt bag - Medium

T-shirt bag - Large



GARBAGE BAG



All Customised
Sizes are available
as per requirement

PACKING BAG



Small

Dimension:

20 cm x 30 cm x 40 micron

Load Capacity : -

Pieces per pack : 200

Pieces per Cartoon : 3000

Weight oer Cartoon : 20 kg

CBM : 0,028 cbm

Medium

Dimension:

25 cm x 40 cm x 40 micron

Load Capacity : -

Pieces per pack : 200

Pieces per Cartoon : 2,000

Weight oer Cartoon : 20 kg

CBM : 0,028 cbm

Large

Dimension:

35 cm x 45 cm x 40 micron

Load Capacity : -

Pieces per pack : 50

Pieces per Cartoon : 1,000

Weight oer Cartoon : 15 kg

CBM : 0,028 cbm

PRAYER MAT

Standard Size

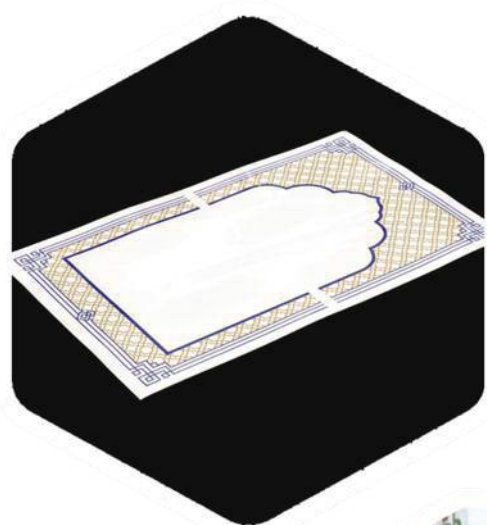


TABLE SHEET

Standard Size



MEDICAL GLOVES & APRON





EDIBLE PACKAGING PRODUCTS



We are dedicated and committed towards our mission of less Carbon emission and protection of our environment. RINAB also introduces special edible food packings such as straws and cups. They are produced in IFS certified production facilities as per the highest production standards and with selected raw materials. No plastic is used in the packaging either and they are able to withstand food and drinks in different ranges of temperature and time. After all you get rid of unnecessary plastic waste and you become an ambassador of protecting our environment!

- ◆ **Edible coffee cup**
- ◆ **Edible Tea cup**
- ◆ **Edible Icecream bowl**
- ◆ **Edible Icecream Cone**
- ◆ **Edible Spoon**
- ◆ **Rice & Wheat straw**

THE BEST VACCINE

| | Fossil - based (PE, PP, PET, PVC, ABS) | Oxo-degradable | Bio-based conventional (PE,PP) | Vegetable based (Water soluble and Bio) |
|---------------------------------|---|----------------|-----------------------------------|--|
| Bio-based | — | — | ~ | ✓ |
| Leaves no micro-plastics behind | — | — | — | ~ |
| Industrially compostable | — | — | — | ✓ |
| Recyclable | ✓ | ~ | ✓ | ✓ |
| Low carbon footprint | — | — | ~ | ✓ |

HOW WE PROTECT THE ENVIRONMENT



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INTERNATIONAL

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