



RAYA PLASTICS

INNOVATIVE INDUSTRY



 0554366146

 info@rayaplastics.com

 Arabian company mall – town center office No.1
10th of Ramadan city -Egypt

www.rayaplastics.com

ABOUT COMPANY

RAYA PLASTICS is a world leading manufacturer of PET bottles and containers providing packaging solutions. Since 2011.

importer and trader of fully pure raw materials for PET and masterbatch. **RAYA PLASTICS** is the exclusive agent for the Emirates company **ENER PLASTICS**.

RAYA is the exclusive agent licensed by **Integrated Plastics** to manufacture the new hand technology,

so that **RAYA** becomes unique in this technology in Egypt and north of Africa



INTEGRALLY MOULDED HANDLE (IMH)[™]BOTTLE

Following the launch of the **world's first IMH[™]PET bottle** in 2006, **Integrated Plastics (IP)** and its network of Licenced partners offer **IMH[™]PET bottles** in over 90 countries around the world. The IMH[™]bottle is a world first innovation in two stage PET moulding technology that is internationally patented.

Currently available in a variety of commercially proven designs from 1ltr to 4ltr the IMH[™]bottles are being successfully used across a number of product applications including Juice, Cordial, Edible Oil and Spring Water in both ambient and Warm Fill.

IP's team of Licensees and their customers including , **Mpact** , **RAYA PLASTICS** , **Tru Blu Beverages**, **Sempio**, **Woolworths**, **Coles**, **Aldi** and **Independent Grocers Australia** all trust IMH[™] bottles to deliver their products to consumers in a environmentally sustainable, fully recyclable and light weight PET handle bottle alternative.



RAYA PLASTICS can develop custom bottle designs and supply to our customer locations all over the Arab Republic of Egypt.

Being a full-service PET bottle manufacturer, and raw materials trade.

RAYA PLASTICS is an innovative plastic bottle manufacturer providing environmentally friendly, food-grade PET bottles.

At **RAYA PLASTICS**, we are interested in you as a long-term customer.

RAYA PLASTICS quality, on-time delivery, and great customer service are all essential elements of a premiere plastic bottle manufacturer.

The expansion of Raya Plastics continues, starting with the trading of pure raw materials and the master batch To the manufacture of plastic containers and the continuous development continues, expansion and additions, Raya Plastics also adds a new technology in the world of plastic manufacturing, which is the hand technique of the same PET material.



Plastic PET bottles provide the look of glass with improved functionality.

- * Resistance of breakage.
- * Lower shipping costs
- * Reduce weight.
- * Reduce warehouse expenses

Your choice of PET bottles versus other plastic containers might hinge on

- * Clarity
- * Impact resistance

Raya Plastic products can be recycled and used again
So, RAYA PLASTICS is dedicated to manufacturing the highest quality

OUR PRODUCTS



FINAL PRODUCT



Raya Plastic manufactures high quality PET plastic containers that are unique in designs, vary in size and capacity, in addition to being recyclable.

Containers suitable for packing food and medical materials, Raya also implements a new technology in the manufacture of PET bottles, with a hand of the same material, which is unique in that.

THE NEW HAND TECHNOLOGY



INTEGRALLY MOULDED HANDLE (IMH)[™]BOTTLE

- **Present Preform Weight :**

1 LtrBottles: 65 g Including Integrally MoldedHandle

1 LtrBottles: 55 g Including Integrally MoldedHandle-Single Connection.

2 LtrBottles: 72 g Including Integrally MoldedHandle

1.8 LtrBottles: 75 g Including Integrally MoldedHandle

1 US Gallon Bottles: 102 g Including Integrally MoldedHandle

1 US Gallon Bottles: 96 g Including Integrally MoldedHandle-Single Connection

Rotary Blow Molding Speed:

- **No. of Cavity: 4/6/8**

1 LtrIMH[™]Bottles: 1000 BPH/Cavity

1.8 Ltr/2 LtrIMH[™]Bottles: 800 BPH/Cavity

1 US Gallon Bottles: 700 BPH/Cavity

- **IMH[™]Preforms can be produced on any standard Injection Molding M/c.**

- **IMH[™]Bottles can be blown on Patented Linear/Rotary Blow molding machines based on customer requirements.**

HANDLE BOTTLES COMPARISON



- ✓ 100% Food Grade Recyclable .
- ✓ Excellent Clarity .
- ✓ Excellent Impact/Stress Crack Resistance .
- ✓ Precise Neck - No Thermo Sealed Caps Requires .
- ✓ Better Shelf Life (PET has 50 Times More Oxygen Barrier Than HDPE).
- ✓ Light Weight .
- ✓ Higher Production Throughput (up to 48 Cavity on Injection Mold and 12 Cavity Rotary ISBM).
- ✓ More Economical & rPET Compatibility .

- ✗ Not Food Grade Recyclable .
- ✗ Poor Clarity and Wax Feeling .
- ✗ Good Impact/Stress Crack Resistance .
- ✗ Due to extrusion Process Precise Neck Not Possible .
- ✗ Poor Barrier Property and not suitable for higher shelf life products as cordial juice etc.,
- ✓ Light Weight .
- ✗ Slow Production Process (4/6 extrusion head limitation).
- ✗ Economical but Poor Product Visibility and Sourcing Difficulty in rHDPE .



- ✗ Not 100% Recyclable as handle portion goes as waste .
- ✓ Excellent Clarity .
- ✓ Excellent Impact/Stress Crack Resistance .
- ✓ Precise Neck - No Thermo Sealed Caps Required .
- ✓ Better Shelf Life (PET has 50 times More Oxygen Barrier than HDPE).
- ✗ Heavy In Weight .
- ✗ Slow Production Throughput as it is restricted by
- ✗ Handle insertion process during /post blowing operation .
- ✗ Less economical .

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ROW MARTIAL

RAYA PLASTICS imports the best types various of environmentally friendly row martial .



OUR PARTNERS



ABOUT ENERPLASTICS

Ener Plastics, an SGS certified ISO 9001:2015, ISO 14001: 2015, and ISO 45001:2018 company was launched in June 1999, as an independent manufacturer of color and additive Masterbatch, servicing the ever-growing plastic conversion industry in the region and around the world. Ener Plastics Advanced Laboratory is ISO/IEC 17025:2017 certified by the Emirates Authority for Standardization and Metrology (ESMA) in 2013 and since October 2016 its accreditation is granted by the Gulf Accreditation Council (GAC) of GCC Accreditation Centre.

OUR PARTNERS



Integrated Plastics are global innovators in sustainable packaging technology

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Delivering the world's first environmentally responsible Integrally Moulded Handle (IMH™) bottle solution.

At Integrated Plastics we are committed to improving the environmental sustainability of plastic bottle blowing technology by exploiting the superior characteristics of PET and rPET and offering a truly circular packaging alternative through innovation and design.

OUR CUSTOMERS





RAYA PLASTICS



OUR VISION

Facilitating industries with innovative solutions for packaging food, medical and cosmetics, and providing the finest raw materials for manufacturing.
Recycling help,



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