

www.omegaplasto.com



I Polycom

For White Application

I Polycom-S

For Colour & Natural Application

BLOW MOULDING

- ☑ Enhances Quality
- ☑ Reduces Cost



Omega Plasto Compounds
Pvt. Ltd.



SOME DETAILS OF BLOW MOULDING FOR YOUR REFERENCE:

In Blow Moulding Industry our compound **POLYCOM** works very effectively.

It has been seen that **Polycom** gives surprising results. These positive feedbacks received from all over the world have been making waves in the polymer industry especially in the segment of "Blow Moulding".

With the help of our compound, the dosages of calcium carbonate and recycle material can be increased and results like better elongation, better strength, better gloss and shining along with smoothening the surface, can be archived.

After using the calcium carbonate or recycle material, small holes (micropores) are generated on the surface of product, which leads to the roughening of the surface. **Polycom** fills up these micropores hence making the surface smoother.

5%-20% of Polycom is recommended in the Blow Moulding segment. The virgin polymer can also be replaced upto 20% using our compound. Which makes **Polycom** a cost effective compound.

Below are our experiences of trials in BLOW MOULDING INDUSTRY.

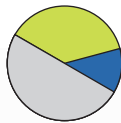
CUSTOMER'S REGULAR FORMULATION WITHOUT POLYCOM



* HDPE VIRGIN : 60%
* HDPE RECYCLE : 40%

In this formulation if the customer increases recycle material, the container becomes dull in finish and breaks in the drop test.

TRIAL WITH POLYCOM



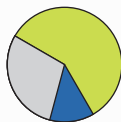
* HDPE VIRGIN : 50%
* HDPE RECYCLE : 40%
* POLYCOM : 10%

RESULT: GLOSS & DROP TEST PROPERTIES ARE INCREASED i.e., better strength and flexibility. So now we increased the recycle as below



* HDPE VIRGIN : 40%
* HDPE RECYCLE : 50%
* POLYCOM : 10%

RESULT : GOOD RESULTS WITH BETTER GLOSS AND DROP TEST PROPERTIES



* HDPE VIRGIN : 30%
* HDPE RECYCLE : 60%
* POLYCOM : 10%

RESULT : GOOD RESULTS WITH BETTER GLOSS AND DROP TEST PROPERTIES



* HDPE VIRGIN : 20%
* HDPE RECYCLE : 70%
* POLYCOM : 10%

RESULT : GOOD RESULTS WITH BETTER GLOSS AND DROP TEST PROPERTIES



* HDPE VIRGIN : 8%
* HDPE RECYCLE : 80%
* POLYCOM : 12%

RESULT : GOOD RESULTS WITH BETTER GLOSS AND DROP TEST PROPERTIES



* HDPE VIRGIN : NIL
* HDPE RECYCLE : 85%
* POLYCOM : 15%

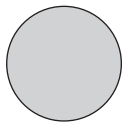
FINAL RESULTS : Customer was able to use 100% recycle material using POLYCOM and also resulted in better properties in comparison to their regular products. Customer also tried without Polycom with 100% recycle material but could not achieve to make a single container (blow moulded can), as it could not blow.

HDPE Virgin | HDPE Recycle | Polycom

NOTE: Above properties may vary from plant to plant, processing skill and raw material used by the manufacturer.

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CUSTOMER'S REGULAR FORMULATION WITHOUT POLYCOM



* HDPE VIRGIN : 100%

Customer was not using any filler with HDPE virgin material as the containers were breaking from 6 feet drop test. This is a common occurring problem with adding of the fillers.

TRIAL WITH POLYCOM



* HDPE VIRGIN : 95%
* POLYCOM : 5%

RESULT: GLOSS & DROP TEST PROPERTIES INCREASED i.e. better strength and flexibility. Customers regular products drop test is done from 12 feet height filled with full container of water. His products are broken on first drop while with our compound POLYCOM they broke on the 3rd drop.



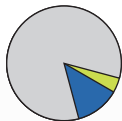
* HDPE VIRGIN : 90%
* POLYCOM : 10%

RESULT : GOOD RESULTS WITH BETTER GLOSS AND DROP TEST PROPERTIES. The products break in 4th drop.



* HDPE VIRGIN : 85%
* POLYCOM : 15%

RESULT : GOOD RESULTS WITH BETTER GLOSS AND DROP TEST PROPERTIES



* HDPE VIRGIN : 85%
* FILLER : 5 %
* POLYCOM: 10%

RESULT : GOOD RESULTS WITH BETTER GLOSS AND DROP TEST PROPERTIES



* HDPE VIRGIN : 75%
* FILLER : 10 %
* POLYCOM: 15%

FINAL RESULTS : GLOSS & DROP TEST PROPERTIES INCREASED
(When the Customer was using calcium without Polycom he was not achieving the desired results like Strength, Gloss ,Shining & Breaking Strength. With the addition of Polycom with 5%-10% calcium the customer managed to get better results in terms of properties like Strength, Gloss, Shining & Breaking Strength.

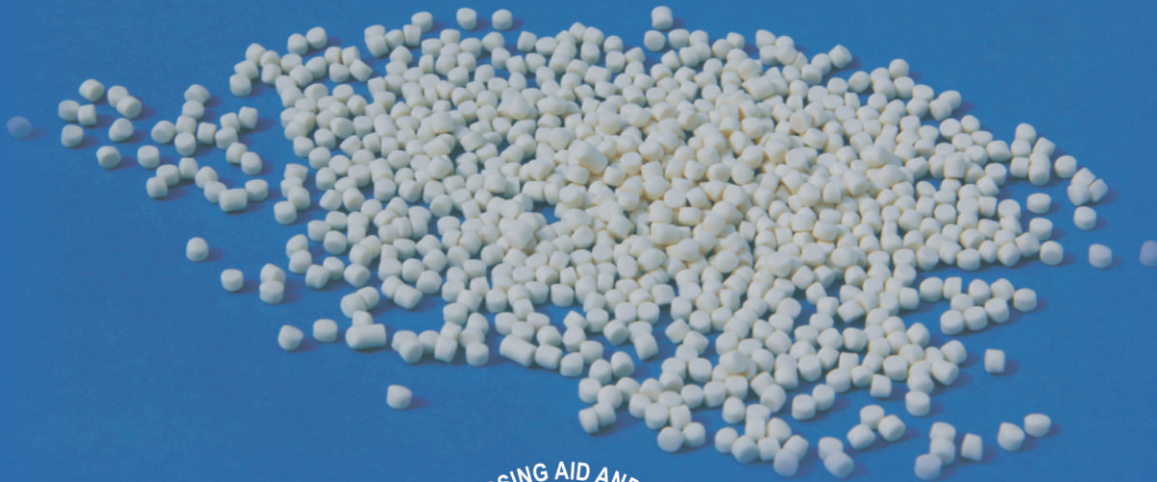
The above trials are few experiments for your reference. With use of **Polycom** some drastic results with astonishing advantages have been experienced in relation to the Drop Test i.e. increase in strength and elongation. Now addition of Recycle and also Calcium mb to much higher extent is possible. Customers using 20% recycle material in the past are now using 100% recycle material with 10%-15% **POLYCOM** and whats more, there products are better than the regular ones and cost is amazingly low.

HDPE Virgin |
 Filler |
 Polycom



NOTE: Above properties may vary from plant to plant, processing skill and raw material used by the manufacturer.

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a <small> addition will make a <BIG> change !

More than 2000 satisfied customers, in more than 55 countries are now enjoying 'Lower cost and Enhanced quality' both together, in BLOW MOULDING INDUSTRY !

design: www.hipodesigns.net

Omega Plasto Compounds Pvt. Ltd. has developed a revolutionary compound that drastically reduces the manufacturing cost while enhancing the Quality of the product. The following features are a few advantages:

- Dosage of Recycle Material can be increased
- CaCO_3 can be increased
- Better Elongation
- Higher Dosage of POLYCOM makes the product Unbreakable
- Good Homogeneity
- Excellent Gloss, Brightness and Finished Surface
- Variations of shrinkage will be controlled
- Thickness variation can be controlled
- Increases breaking strength
- Increases impact strength
- Excellent dispersion of all raw materials
- Increase in intensity of colour
- Consistent Flow of the Raw Material

Enhances Quality
 Reduces Cost

Omega Plasto Compounds Pvt. Ltd.

UNIT-1: 287 & 288, GIDC Manjusar, Tal.: Savli,
 Dist. Vadodara-391 775. Gujarat.(INDIA)
 Tel: +91-2667-264308, +91-93743 29377,
 Fax: +91-2667-264662
 E-Mail: sales@omegaplasto.com
 opck@hotmail.com
 SKYPE: omegaplasto
 website: www.omegaplasto.com



UNIT-2: 85, G.I.D.C., Alindra, Tal.: Savli,
 Dist. Vadodara-391 775. Gujarat.(INDIA)

