

Government of the People's Republic of Bangladesh
Duty Exemption and Drawback Office
Chittagong Samity Bhaban
32, Topkhana Road, Dhaka

Input-Output Coefficient for Expo Accessories Limited

Name of Product & Unit.	Raw Materials	General Formula for Raw Material consumption
1) Plain Poly Bag. Unit: 1000 pcs	1) PP/LLDPE/LDPE/ 'BOPP Film	PP Consumption = $2 \times 1000 \times L \times W \times T \times D \text{ gm} + 5\% \text{ Wastage}$ Sample Calculation: (Say, L=Length of Bag=100cm, W=Width of bag=50cm, T=Thickness of Bag=0.005cm, D=Density of PP=0.90gm/c.c) Therefore, Total PP Consumption = $(2 \times 1000 \times 100 \times 50 \times 0.005 \times 0.90) \times 1.05 \text{ gm} = 47250 \text{ gm} = 47.25 \text{ kg}$
2) Printed Poly Bag. (One to four colour) Unit: 1000 pcs	1) PP/LLDPE/LDPE/ 'BOPP Film ; 2) Flexoprint Ink 3) Thinner/Reducer	PP Consumption = $2 \times 1000 \times L \times W \times T \times D \text{ gm} + 7\% \text{ Wastage}$ Sample Calculation: (Say, L=Length of Bag=100cm, W=Width of bag=50cm, T=Thickness of Bag=0.005cm, D=Density of PP=0.90gm/c.c) Therefore, Total PP Consumption = $(2 \times 1000 \times 100 \times 50 \times 0.005 \times 0.90) \times 1.07 \text{ gm} = 48150 \text{ gm} = 48.15 \text{ kg}$ 22gm (With Wastage) 66gm (With Wastage)
3) Flap Type Poly bag with gussets in bottom & adhesive tape. Unit: 1000 pcs	1) PP/LLDPE/LDPE/ 'BOPP Film 2) Adhesive Tape (Width=15mm)	PP Consumption = $2 \times 1000 \times (L+5\text{cm}) \times (W) \times T \times D \text{ gm} + 8\% \text{ Wastage}$ Sample Calculation: (Say, L=Length of Bag=100cm, W=Width of bag=50cm, T=Thickness of Bag=0.005cm, D=Density of PP=0.90gm/c.c) Therefore, Total PP Consumption = $(2 \times 1000 \times 105 \times 50 \times 0.005 \times 0.90) \times 1.08 \text{ gm} = 51030 \text{ gm} = 51.03 \text{ kg}$ Note: 5cm allowance for bottom gussets & flap folding. Total Adhesive Tape Consumption = $1000 \times w + 5\% \text{ wastage cm}$ Sample Calculation: Say, W=Width of Bag=50cm Therefore, Total Adhesive Consumption = $1000 \times 50 \times 1.05 \text{ cm} = 525.0 \text{ m}$
4) Printed Pillow type poly bag with bottom gusset. (1 to 4 colour) Unit: 1000 pcs	1) PP/LLDPE/LDPE/ 'BOPP Film 2) Flexoprint Ink 3) Thinner/Reducer	PP Consumption = $2 \times 1000 \times (L+5\text{cm}) \times (W) \times T \times D \text{ gm} + 8\% \text{ Wastage}$ Sample Calculation: (Say, L=Length of Bag=100cm, W=Width of bag=50cm, T=Thickness of Bag=0.005cm, D=Density of PP=0.90gm/c.c) Therefore, Total PP Consumption = $(2 \times 1000 \times 105 \times 50 \times 0.005 \times 0.90) \times 1.08 \text{ gm} = 51030 \text{ gm} = 51.03 \text{ kg}$ 22gm (With Wastage) 66gm (With Wastage) Note: 5cm allowance for bottom gussets & pillow folding.
5) Printed Poly Bag With gussets in bottom & attached hanger. (1 to 4 colour) Unit: 1000 pcs	1) PP/LLDPE/LDPE/ 'BOPP Film 2) Polypropylene (For Hanger) 3) Flexoprint Ink 4) Thinner/Reducer	PP Consumption = $2 \times 1000 \times (L+5\text{cm}) \times (W) \times T \times D \text{ gm} + 8\% \text{ Wastage}$ Sample Calculation: (Say, L=Length of Bag=100cm, W=Width of bag=50cm, T=Thickness of Bag=0.005cm, D=Density of PP=0.90gm/c.c) Therefore, Total PP Consumption = $(2 \times 1000 \times 102.5 \times 50 \times 0.005 \times 0.90) \times 1.08 \text{ gm} = 49815 \text{ gm} = 49.815 \text{ kg}$ Note: 2.5cm allowance for gusset folding only 6.25 kg (with wastage) 22gm (with wastage) 66 gm (with wastage)

Received
29-11-14

AF/nil
26/11/14
মুহম্মদ আফজালুর রহমান
সেতার স্পেশালিস্ট
৩৬ বোয়াল গল্ডেনপার্ল পলিডায়র (ডেভো
লকা।

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Name of Product & Unit.	Raw Materials	General Formula for Raw Material consumption
6) Printed Poly Bag. (six colour) Unit: 1000 pcs	1) PP/LLDPE/LDPE/ 'BOPP Film 2) Flexoprint Ink 3) Thinner/Reducer	PP Consumption = $2 \times 1000 \times L \times W \times T \times D \text{ gm} + 8\% \text{ Wastage}$ Sample Calculation: (Say, L=Length of Bag=100cm, W=Width of bag=50cm, T=Thickness of Bag=0.005cm, D=Density of PP=0.90gm/c.c) Therefore, Total PP Consumption = $(2 \times 1000 \times 100 \times 50 \times 0.005$ $\times 0.90) \times 1.08 \text{ gm} = 481600 \text{ gm} = 48.6 \text{ kg}$ 33gm (With Wastage) 99gm (With Wastage)
7) Printed Hanger type poly Bag. (1 to 4 colour) Unit: 1000 pcs	1) PP/LLDPE/LDPE/ 'BOPP Film 2) Flexoprint Ink 3) Thinner/Reducer	PP Consumption = $2 \times 1000 \times L \times W \times T \times D \text{ gm} + 7\% \text{ Wastage}$ Sample Calculation: (Say, L=Length of Bag=100cm, W=Width of bag=50cm, T=Thickness of Bag=0.005cm, D=Density of PP=0.90gm/c.c) Therefore, Total PP Consumption = $(2 \times 1000 \times 100 \times 50 \times 0.005$ $\times 0.90) \times 1.07 \text{ gm} = 48150 \text{ gm} = 48.45 \text{ kg}$ 22gm (With Wastage) 66gm (With Wastage)
8) Printed Label Unit: 1000 Pcs	1) Satin/Paper Ribbon 2) Printing Ink	$\frac{\text{Length of Label (cm)} \times \text{Width of Label (cm)} \times 1.05 \times \text{Number of Label (sq.m)}}{100 \times 100}$ $2 \text{ gms/sq.m} \times \text{Area of Product in sq.m} \times \text{Number of Label}$

Note: Thickness of the polybag should be of single sided film. In the above general formula D is constant but L, T & W are variables. For any value of L, T & W the total consumption of raw material for 1000 pieces of poly bags can be estimated by above general formula for a definite type of bag by following the method shown in the sample calculation. For PP, D= Density =0.90gm/cc, for LDPE, D=Density=0.91gm/cc & for LLDPE, D=Density=0.92gm/cc. The density of CPP/OPP/BOPP film D=density=0.90gm/cc. If the bag is directly made of CPP/OPP/BOPP film (Imported or made in different factory) then the wastage in polybag processing will be reduced by 2.5% in all categories. That is, for product No. 1,2,3,4,5,6&7 the wastage is 2.5%,4.5%,5.5%,5.5%,5.5%,3.5%&4.5% respectively. Snap Button will be used only for Bag with button.

Note:

Input-Output co-efficient must be revised under the following circumstances:

1. If production is changed.
2. If abnormal situation arises, such as severe load shading, insufficient supply of natural gas etc.
3. If technology is changed.
4. If product quality is changed according to the buyers demand.
5. If stakeholder arises any logical dispute about any Co-efficient through association.
6. If BMRE is done in the factory.
7. Under any logical circumstances the authority reserves the right to amend or cancel the issued Co-efficient at any time.
8. This Co-efficient is applicable for 5 years from the date of issue.
9. After issuing this Co-efficient previous all Co-efficient will be invalid.

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23-0-14
(Md. Rezaul Kabir)
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