

2019 SIMA Business Sustainability Alliance Poly Bag Initiative

*Guiding the industry toward a better poly bag
solution for the environment.*



INTRODUCTION

SIMA Business Sustainability Alliance

SIMA has launched a new initiative called the Business Sustainability Alliance which is committed to creating efficiencies and cost savings for SIMA members by “reducing and eliminating.” The Alliance is kicking off its mission to “reduce and eliminate” with a focus on the poly bags in which nearly all apparel items are warehoused and shipped to retailers. Additional items that the Alliance will address under the “reduce and eliminate” mantra are printed product catalogs and brand shopping bags.

Poly Bag Initiative

Approximately eight million metric tons of plastic enters the world’s oceans every year. The U.S. surf industry uses hundreds of millions of poly bags every year - the majority of which are made from virgin plastic. While these bags are necessary to protect goods while in transit and storage, SIMA is determined to lead the industry to find a solution that reduces the impact on the environment while being cost effective.

(continued)

INTRODUCTION

Poly Bag Initiative *(continued)*

With the help of SIMA members such as Vans, Billabong, Vissla and Reef, as well as the environmental expertise of The Surfrider Foundation, the SIMA Business Sustainability Alliance is excited to present a two-option poly bag solution that:

1. Provides a poly bag that is better for the environment and in line with Surfrider guidance;
2. Reduces the amount of plastic produced from poly bag use between 40% and 60%;
3. Is cost-neutral or even reduces costs.

ENVIRONMENTAL GUIDANCE FROM SURFRIDER

In order to ensure that the new poly bag options meet important criteria and live up to claims of being better for the environment, SIMA sought expert guidance from the team at The Surfrider Foundation.

A full copy of Surfrider's guidance and decision matrix can be found in attached **Appendix 1**. The following is a summary of the key guidance points:

1. Eliminate the use of poly bags where possible;
2. Reduce the size, quantity and thickness of poly bags;
3. Use a poly bag that is made primarily from recycled materials and can be recycled;
4. Continually review and evaluate new technologies for better solutions.
5. Work with retailers to ensure poly bags are recycled



POLY BAG SOLUTIONS

Option #1 - Mainetti M-Film Air

This option offers a poly bag in a wide range of sizes that is:

- 100% made from recycled waste
- 100% recyclable
- Lighter/thinner material using approximately 40% less plastic
- Pricing in line with existing virgin poly costs depending on volume

Pricing Example



	Current	Mainetti	+/-	
Category	Factory Sourced (0.05mm)	100% Recycled LDPE material (0.03mm)	Cost Difference	Product Specification
	Based on similar sz comparison	per pcs @1000		Dimensions
Boardshort	0.06	0.05	0.01	455mm W x 375mm L (fillable) + 50mm flap with resealable adhesive tape
T-Shirt	0.04	0.04	0.00	410mm W x 300mm L (fillable) + 50mm flap with resealable adhesive tape
Jacket / Fleece	0.11	0.11	0.00	960mm W x 570mm L (fillable) + 50mm flap with resealable adhesive tape
Woven / Knit	0.05	0.04	0.01	318mm W x 406mm L (fillable) + 50mm flap with resealable adhesive tape
Swim	0.02	0.01	0.01	175mm W x 200mm L (fillable) + 40Xmm flap with resealable adhesive tape

N/A

5000MOQ

***See Appendix 2 for full breakdown**

POLY BAG SOLUTIONS

Option #2 - L&E BioPlastiQ 1

This option offers a poly bag in a wide range of sizes that is:

- 100% recyclable
- Includes a percentage of bio based plastic*
- Lighter/thinner material using approximately 61% less plastic
- Pricing in line with existing virgin poly costs depending on volume

**While guidance from Surfrider includes avoiding plastics made with more than 50% virgin materials (which includes biopolymer materials that are purpose grown), the biopolymers used in this L&E option are not grown for the sole purpose of creating bioplastic feedstocks. However, because the percentage of virgin materials is above 50%, this option from L&E does not fully meet Surfrider's guidance standards.*

Pricing Example

					ExWks Price by Production Location				
L&E Item Code	Thickness MM	Dimensions			Side Seal with Fold Over and Taped Seal Design				
		LLL x WWW CM	LLL CM	WWW CM	India, New Delhi USD	India, New Delhi IDR	China, Guang Dong USD	Vietnam, HCMC USD	Indonesia, Central Java USD
VFBIOP20BAG01	0.02	10 x 20	10	20	\$0.0035	₹ 0.27	\$0.0060	\$0.0386	\$0.0386
VFBIOP20BAG02	0.02	10 x 30	10	30	\$0.0053	₹ 0.41	\$0.0111	\$0.0398	\$0.0398
VFBIOP20BAG03	0.02	10 x 65	10	65	\$0.0115	₹ 0.89	\$0.0218	\$0.0438	\$0.0438
VFBIOP20BAG04	0.02	15 x 15	15	15	\$0.0037	₹ 0.27	\$0.0070	\$0.0405	\$0.0405
VFBIOP20BAG05	0.02	15 x 20	15	20	\$0.0049	₹ 0.36	\$0.0090	\$0.0414	\$0.0414
VFBIOP20BAG06	0.02	15 x 25	15	25	\$0.0062	₹ 0.45	\$0.0120	\$0.0421	\$0.0421
VFBIOP20BAG07	0.02	15 x 30	15	30	\$0.0074	₹ 0.54	\$0.0141	\$0.0429	\$0.0429
VFBIOP20BAG08	0.02	15 x 35	15	35	\$0.0086	₹ 0.64	\$0.0161	\$0.0438	\$0.0438
VFBIOP20BAG09	0.02	15 x 50	15	50	\$0.0124	₹ 0.91	\$0.0222	\$0.0461	\$0.0461
VFBIOP20BAG10	0.02	20 x 10	20	10	\$0.0032	₹ 0.23	\$0.0070	\$0.0419	\$0.0419
VFBIOP20BAG11	0.02	20 x 25	20	25	\$0.0079	₹ 0.57	\$0.0145	\$0.0450	\$0.0450

***See Appendix 3 for full breakdown**

TAKE THE NEXT STEPS!

All the work has been done and the solutions are there. The first step to moving your brand to a more sustainable poly bag solution is to reach out to one or both of the poly bag companies that have received SIMA's and Surfrider's approval and evaluate which option best suits your needs. Be sure to indicate with each vendor that your brand is a SIMA member.

Mainetti M-Film Air

- Contact Name: Byron Yeung
- Contact Phone: +852 29501650
- Contact Email: byron.yeung@mainetti.com

L&E BioPlastiQ

- Contact Name: Erin Frazer
- Contact Phone: (516) 724-1726
- Contact Email: erin@le-intl.com

Once your brand has secured pricing with one of the above options and made the decision to switch to a more sustainable poly bag, please contact SIMA and let us know what option you'll be using and when you'll begin using the new bags. Your company will be listed with all participating brands as part of the SIMA Business Sustainability Alliance. In addition, SIMA will begin to collect data in order to quantify and promote the impact our industry is having on the environment through this program.

ADDITIONAL STEPS TO CONSIDER

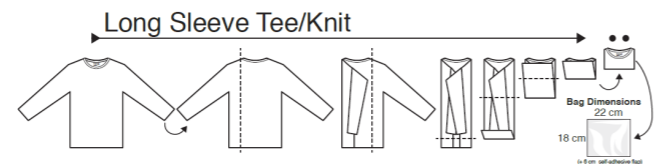
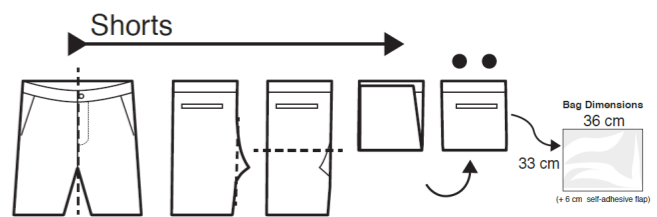
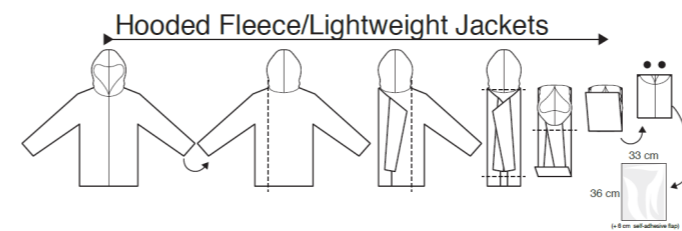
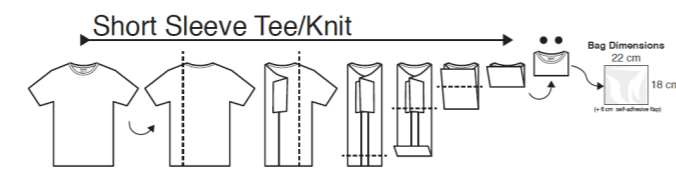
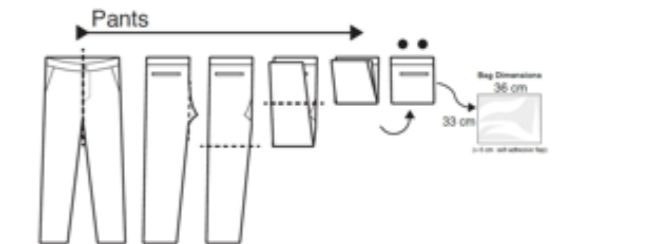
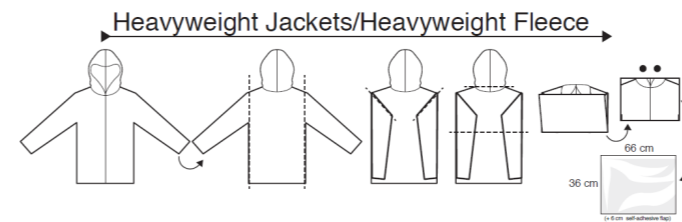
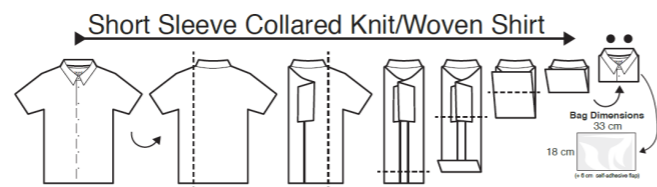
In addition to making the move to more sustainable poly bags, SIMA brands should also consider these practices in order to improve their impact on the environment - and their bottom line:

- Remove poly bags from protos, look at pre packs in accessories, eliminate individual bags on SMU orders where possible;
- Reduce number of poly bag sizes;
- Work with retailers to ensure that poly bags are properly recycled; consider partnering with a specialized in-house plastic film recycling program such as WRAP, Core or Terracycle;
- Offer customers easy methods for recycling poly bags that come with purchased products; for example, consider utilizing a highly visible “How to Recycle” label, offer customers instructions on how to send back the poly bag to company headquarters to be recycled, or inform customers where they can properly recycle the poly bag;

**Note: the SIMA Business Sustainability Alliance will be taking a closer look at retailer and customer recycling options in the near future with the goal of providing members with viable options for this important step in the poly bag process.*

ADDITIONAL STEPS TO CONSIDER (continued)

- Evaluate/test the idea of different folding techniques to reduce bag size (see example below)



For more information, contact:

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Surfrider Foundation Guidance for Polyethylene Bag (Poly Bag) Use

The Facts About Poly Bags:

- Poly bags are not widely recycled as they cannot be accepted or processed by curbside pickup
- There were over 2.6 million tons of poly bags generated in the US in 2015, but the recycling rate was only 18.8%¹
- Like all plastics, when exposed to the sun, poly bags release methane and ethylene, which are potent greenhouse gases that contribute to climate change²
- Plastic bags are problematic in the litter stream because they float easily in the air and water, travel long distances and never fully break down in water.
- Plastic bags, which resemble jellyfish, are the most commonly found man-made item in sea turtles' stomachs.³

Bio-Based vs. Fossil Fuel-Based Plastics:

Bio-derived plastics (also referred to as bio-based plastics or biopolymers) are plastics made from biomass or renewable sources, instead of fossil fuels. The European Standard for claiming that a product is bio-based depends on the percentage of the material's carbon content that is bio-based (termed 14C content measurement).^{4,5} One of the most popular bio-based plastics is polylactide (PLA), which is generally referred to as biodegradable and compostable;⁶ however, not all bio-based plastics are biodegradable, including bio-polyethylene (or "green PE") and bio-polyamide (Nylon 11).⁷ If bio-based products are used, it's preferred that they are made from waste materials, as opposed to raw materials, to prevent additional environmental stressors and land use change.⁸

Fossil fuel-based plastics are essentially the conventional plastics: cheap, plentiful, and highly resistant to biodegradation regardless of environmental conditions. The resistance to degradation is actually a sought after quality during the plastic's use phase, but dangerous for end of life. Once in the environment, the level of ecological risk depends on the plastic's physical characteristics/size, chemical components, and time and ability to completely biodegrade.⁹

¹ USEPA. 2018. [Advancing Sustainable Materials Management 2015 Tables and Figures: Assessing Trends in Material Generation, Recycling, Composting, Combustion with Energy Recovery and Landfilling in the United States](#). Pp.9.

² Royer, S.J., Ferron, S., Wilson, S.T., & Karl, D.M. 2018. [Production of methane and ethylene from plastic in the environment](#). *PLoS ONE*, Vol 13, No. 8.

³ N. Mrosovsky. 2009. [Leatherback Turtles: The Menace of Plastic](#). *Marine Pollution Bulletin*, Vol. 58, No. 2.

⁴ European Bioplastics. 2018. [Harmonised standards for bioplastics](#).

⁵ CEN/TS 16137:2011

⁶ UNEP. 2015. [Biodegradable plastics & marine litter: Misconceptions, concerns and impacts on marine environments](#). United Nations Environment Programme (UNEP).

⁷ Tokiwa, Y., Calabia, B.P., Ugwu, C.U. & Aiba, S. 2009. [Biodegradability of plastics](#). *International Journal of Molecular Science*, Vol. 10, No. 9., Pp. 3722-3742.

⁸ UNEP. 2015. [Biodegradable plastics & marine litter: Misconceptions, concerns and impacts on marine environments](#). United Nations Environment Programme (UNEP).

⁹ Tokiwa, Y., Calabia, B.P., Ugwu, C.U. & Aiba, S. 2009. [Biodegradability of plastics](#). *International Journal of Molecular Science*, Vol. 10, No. 9., Pp. 3722-3742.

Surfrider Recommendations for Poly Bag Use in Industry

1. Use less polyethylene

- Opt for bulk packaging of items
- Reduce all plastic use, including conventional polyethylene and bio-derived, wherever possible
- Investigate post-consumer recycled paper options for distributing products
- Pack materials tighter to use less plastic film

2. Source recycled poly bags

- Avoid plastics made with more than 50% virgin materials (for biopolymers, that includes “purpose grown”)
- Avoid plastics labeled as oxo-biodegradable (have accelerated degradation additives)
- Ideally use recycled and recyclable bio-based materials derived from the waste stream

3. Implement or adopt a robust polyethylene recycling program

- Join a specialized in house plastic film recycling program
 - e.g. [WRAP](#), [Cope](#), [Terracycle](#)

4. Work with wholesale dealers and supply chain to ensure poly bags are recycled

- Ensure that polyethylene wrapped products sent to wholesale dealers and stores are collected and recycled. If they are not, provide incentives so they can send back the plastic to headquarters for recycling.

5. Offer customers easy methods to recycle poly bags that come with purchased products

- Utilize a highly visible “How to Recycle” label for customer facing products
- Offer customers instructions on how to send back the polybag to company headquarters to be recycled
- Inform customers where they can recycle the plastic waste.

Surfrider Recommendation Summary: The best first step is to see where plastic use can be reduced or eliminated. After that, use best available technology to get as close as possible to: a bio-derived polymer or plastic that is born of the waste stream (high recycled content) and can be easily and continuously recycled, ensuring a completely closed-loop system. Note that new technologies and solutions continue to be developed, tested, and vetted by advocacy organizations such as Surfrider, so it’s important to revisit your packaging options annually.

Disclaimer: In the following Decision Matrix, Surfrider reviewed a list of poly bag options provided by SIMA and applied the Decision Matrix to determine the most environmentally-responsible options. This was not a comprehensive market assessment.

Appendix 1

Surfrider Foundation Poly Bag Decision Matrix

Check marks indicate that bag/program options meet recommended standards (the more check marks, the more environmentally-friendly).

Decision matrix below is only recommended if complete plastic or poly bag source reduction is not an option, see recommendation summary below.

Surfrider Recommendations		Bag Options Considered						Programs Considered
Guidance	Technique	AD BIOLEX	BAOSHENEco- One Additive	ESQUELPE (NOT D2W)	Mozaic/L&E Bio- Polymer: Option 1	Mozaic/L&E Bio- Polymer: Option4 (100% Recycled Content)	Mainetti/. M Film Air	TerraCycle Polybag Recycling Program
Source recycled-content and recyclable poly bags	Avoid plastics made with more than 50% virgin materials (for biopolymers, that includes “purpose grown”)					TRUE	TRUE	
	Avoid plastics labeled as oxo-biodegradable (have accelerated degradation additives)	TRUE		TRUE	TRUE	TRUE	TRUE	
	Ensure that plastic selection is completely recyclable to support circular economy goals	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	
Implement or adopt a robust polyethylene recycling program	Join a specialized in house plastic film recycling program							TRUE
Work with wholesale dealers and supply chain to ensure poly bags are recycled	Ensure that polyethylene wrapped products sent to wholesale dealers and stores are collected and recycled. If they are not, provide incentives so they can send back the plastic to headquarters for recycling							TRUE
Offer customers easy methods to recycle poly bags that come with purchased products	Utilize a highly visible “How to Recycle” label for customer facing products							TBD
	Offer customers instructions on how to send back the poly bag to company headquarters to be recycled							TRUE
	Inform customers where they can recycle the plastic waste							TRUE

Surfrider Recommendation Summary: The best first step is to see where plastic use can be reduced or eliminated. After that, use best available technology to get as close as possible to: a bio-derived polymer or plastic that is born of the waste stream (high recycled content) and can be easily and continuously recycled, ensuring a completely closed-loop, circular system. Note that new technologies and solutions continue to be developed, tested,

Appendix 2



Category (for 45 bag sizes)	Polybag Dimension WXH+Flag(cm)	Description	China	Vietnam	Bangladesh	Indonesia	Sri Lanka	India	Italy
			100%recycled LDPEmaterial	100%recycled LDPEmaterial	100%recycled LDPEmaterial	100%recycled LDPEmaterial	100%recycled LDPEmaterial	100%recycled LDPEmaterial	100%recycled LDPEmaterial
			Ex-work HK selling price (USD/1000pcs)	Ex-work Factory selling price (USD/1000pcs)	Ex-work Factory selling price (USD/1000pcs)	Ex-work Factory selling price (USD/1000pcs)	Ex-work Factory selling price (USD/1000pcs)	Ex-work Factory selling price (USD/1000pcs)	Ex-work Factory selling price (USD/1000pcs)
sods/ belt	13 x25+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0108	\$ 0.0114	\$ 0.0119	\$ 0.0119	\$ 0.0119	\$ 0.0119	\$ 0.0125
Headwear	28 x28+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0244	\$ 0.0256	\$ 0.0269	\$ 0.0269	\$ 0.0269	\$ 0.0269	\$ 0.0281
BAG	29 x16.5+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0176	\$ 0.0184	\$ 0.0193	\$ 0.0193	\$ 0.0193	\$ 0.0193	\$ 0.0202
towel/bag/cap	34 x60+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0546	\$ 0.0574	\$ 0.0601	\$ 0.0601	\$ 0.0601	\$ 0.0601	\$ 0.0628
BAG	36 x23+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0270	\$ 0.0284	\$ 0.0297	\$ 0.0297	\$ 0.0297	\$ 0.0297	\$ 0.0311
BAG(JACKET 96x57x5)	45 x100+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.1136	\$ 0.1193	\$ 0.1250	\$ 0.1250	\$ 0.1250	\$ 0.1250	\$ 0.1307
BAG/ HEADWEAR	45 x64+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0762	\$ 0.0800	\$ 0.0838	\$ 0.0838	\$ 0.0838	\$ 0.0838	\$ 0.0876
HEADWEAR	45 x70+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0824	\$ 0.0866	\$ 0.0907	\$ 0.0907	\$ 0.0907	\$ 0.0907	\$ 0.0948
HEADWEAR	47 x36+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0492	\$ 0.0516	\$ 0.0541	\$ 0.0541	\$ 0.0541	\$ 0.0541	\$ 0.0565
TOWEL	59 x21+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0411	\$ 0.0431	\$ 0.0452	\$ 0.0452	\$ 0.0452	\$ 0.0452	\$ 0.0473
HEADWEAR	62 x36+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0646	\$ 0.0679	\$ 0.0711	\$ 0.0711	\$ 0.0711	\$ 0.0711	\$ 0.0743
HEADWEAR	65 x65+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.1112	\$ 0.1168	\$ 0.1224	\$ 0.1224	\$ 0.1224	\$ 0.1224	\$ 0.1279
HEADWEAR	75 x55+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.1109	\$ 0.1165	\$ 0.1220	\$ 0.1220	\$ 0.1220	\$ 0.1220	\$ 0.1276
FTW/ HEADWEAR/ FLEECE	32 x40+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0367	\$ 0.0385	\$ 0.0403	\$ 0.0403	\$ 0.0403	\$ 0.0403	\$ 0.0422
TEE	28 x40+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0322	\$ 0.0338	\$ 0.0354	\$ 0.0354	\$ 0.0354	\$ 0.0354	\$ 0.0370
FLEECE	30 x46+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0386	\$ 0.0405	\$ 0.0424	\$ 0.0424	\$ 0.0424	\$ 0.0424	\$ 0.0444
FLEECE	35 x46+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0449	\$ 0.0471	\$ 0.0494	\$ 0.0494	\$ 0.0494	\$ 0.0494	\$ 0.0516
TEE/ RASHGUAD	24 x38+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0266	\$ 0.0279	\$ 0.0292	\$ 0.0292	\$ 0.0292	\$ 0.0292	\$ 0.0306
SWEATER	40 x45+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0503	\$ 0.0528	\$ 0.0553	\$ 0.0553	\$ 0.0553	\$ 0.0553	\$ 0.0578
SWEATER	40 x55+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0595	\$ 0.0625	\$ 0.0655	\$ 0.0655	\$ 0.0655	\$ 0.0655	\$ 0.0684
SWIM/ SPORT	17.5 x22.5+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0133	\$ 0.0140	\$ 0.0147	\$ 0.0147	\$ 0.0147	\$ 0.0147	\$ 0.0153
SWIM/ SPORT	22.5 x25+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0182	\$ 0.0191	\$ 0.0200	\$ 0.0200	\$ 0.0200	\$ 0.0200	\$ 0.0209
Neoprene Top	55 x76+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.1082	\$ 0.1136	\$ 0.1191	\$ 0.1191	\$ 0.1191	\$ 0.1191	\$ 0.1245
Neoprene Steamer	56 x185	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: bottom sealed bag without adhesive strip	\$ 0.2400	\$ 0.2521	\$ 0.2641	\$ 0.2641	\$ 0.2641	\$ 0.2641	\$ 0.2761
Boardshort/Hybrid	33 x61+5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0538	\$ 0.0565	\$ 0.0592	\$ 0.0592	\$ 0.0592	\$ 0.0592	\$ 0.0619

Appendix 2



			China	Vietnam	Bangladesh	Indonesia	Sri Lanka	India	Italy
			100%recycled LDPEmaterial	100%recycled LDPEmaterial	100%recycled LDPEmaterial	100%recycled LDPEmaterial	100%recycled LDPEmaterial	100%recycled LDPEmaterial	100%recycled LDPEmaterial
Category (for 45 bag sizes)	PolybagDimension W X H + Flag (cm)	Description	Ex-work HK selling price (USD/1000pcs)	Ex-work Factory selling price (USD/1000pcs)	Ex-work Factory selling price (USD/1000pcs)	Ex-work Factory selling price (USD/1000pcs)	Ex-work Factory selling price (USD/1000pcs)	Ex-work Factory selling price (USD/1000pcs)	Ex-work Factory selling price (USD/1000pcs)
Boardshort/Hybrid	25.5 x 56 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0388	\$ 0.0407	\$ 0.0427	\$ 0.0427	\$ 0.0427	\$ 0.0427	\$ 0.0446
Boardshort/Hybrid	25.5 x 41 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0300	\$ 0.0315	\$ 0.0330	\$ 0.0330	\$ 0.0330	\$ 0.0330	\$ 0.0345
Boardshort/Hybrid	30.5 x 38 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0336	\$ 0.0353	\$ 0.0369	\$ 0.0369	\$ 0.0369	\$ 0.0369	\$ 0.0386
Boardshort/Hybrid	30.5 x 46 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0392	\$ 0.0412	\$ 0.0431	\$ 0.0431	\$ 0.0431	\$ 0.0431	\$ 0.0451
Boardshort/Hybrid	38 x 51 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0531	\$ 0.0557	\$ 0.0584	\$ 0.0584	\$ 0.0584	\$ 0.0584	\$ 0.0610
Boardshort/Hybrid	38 x 63.5 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0640	\$ 0.0672	\$ 0.0704	\$ 0.0704	\$ 0.0704	\$ 0.0704	\$ 0.0736
Boardshort/Hybrid	38 x 69 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0689	\$ 0.0723	\$ 0.0757	\$ 0.0757	\$ 0.0757	\$ 0.0757	\$ 0.0792
Boardshort/Hybrid	46 x 74 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0885	\$ 0.0929	\$ 0.0974	\$ 0.0974	\$ 0.0974	\$ 0.0974	\$ 0.1018
Woven shirt LS/ SS	25 X 36 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0265	\$ 0.0278	\$ 0.0291	\$ 0.0291	\$ 0.0291	\$ 0.0291	\$ 0.0305
Woven Pants	64 X 33 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0622	\$ 0.0654	\$ 0.0685	\$ 0.0685	\$ 0.0685	\$ 0.0685	\$ 0.0716
Woven Pants	59 X 29 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0520	\$ 0.0546	\$ 0.0572	\$ 0.0572	\$ 0.0572	\$ 0.0572	\$ 0.0598
Woven Shorts	61 X 36 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0636	\$ 0.0668	\$ 0.0699	\$ 0.0699	\$ 0.0699	\$ 0.0699	\$ 0.0731
Prepack Polybag	42.5 x 71.5 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0794	\$ 0.0833	\$ 0.0873	\$ 0.0873	\$ 0.0873	\$ 0.0873	\$ 0.0913
Woven Top	35 x 50.5 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0485	\$ 0.0510	\$ 0.0534	\$ 0.0534	\$ 0.0534	\$ 0.0534	\$ 0.0558
Woven Dress	29.5 x 29 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0264	\$ 0.0277	\$ 0.0290	\$ 0.0290	\$ 0.0290	\$ 0.0290	\$ 0.0303
All category (TSHIRT)	32 x 41 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0374	\$ 0.0393	\$ 0.0411	\$ 0.0411	\$ 0.0411	\$ 0.0411	\$ 0.0430
Snow Jacket (JACKET 96x57x5)	53 X 71 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0982	\$ 0.1031	\$ 0.1080	\$ 0.1080	\$ 0.1080	\$ 0.1080	\$ 0.1129
Snow Pants	66 X 38 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0718	\$ 0.0754	\$ 0.0790	\$ 0.0790	\$ 0.0790	\$ 0.0790	\$ 0.0826
Woven Jacket (padding)	42 X 57 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0644	\$ 0.0676	\$ 0.0708	\$ 0.0708	\$ 0.0708	\$ 0.0708	\$ 0.0740
Woven Jacket (midto light weight)	37 X 50 + 5 cm	Thickness: 0.03mm Print 1C/1C art in black, front and back Construction: 5cm flag with resalable adhesive tape	\$ 0.0508	\$ 0.0534	\$ 0.0559	\$ 0.0559	\$ 0.0559	\$ 0.0559	\$ 0.0585

Size 36 X 185 – the machinery cannot make the adhesive tape for this size. Thus, we proposed the

Generic BioPlastiQ Polybag Costing
Prepared for VF Group and SIMA Affiliates

Appendix 3

L&E Item Code	Thickness MM	Dimensions LLLxWWW CM	ExWUs Price by Production Location											Remarks	
			Side Seal with Fold Over and Taped Seal Design		Bottom Seal Design										
			LLL CM	WWW CM	India, New Delhi USD	India, New Delhi IDR	China, Guang Dong USD	Vietnam, HCMC USD	Indonesia, Central Java USD	India, New Delhi USD	India, New Delhi IDR	China, Guang Dong USD	Vietnam, HCMC USD		Indonesia, Central Java USD
VFBIOP2OBAG01	0.02	10x20	10	20	\$0.0035	₹0.27	\$0.0060	\$0.0386	\$0.0386	\$0.0028	₹0.18	\$0.0050	\$0.0313	\$0.0313	
VFBIOP2OBAG02	0.02	10x30	10	30	\$0.0053	₹0.41	\$0.0111	\$0.0398	\$0.0398	\$0.0042	₹0.27	\$0.0079	\$0.0322	\$0.0322	
VFBIOP2OBAG03	0.02	10x65	10	65	\$0.0115	₹0.89	\$0.0218	\$0.0438	\$0.0438	\$0.0091	₹0.59	\$0.0148	\$0.0354	\$0.0354	
VFBIOP2OBAG04	0.02	15x15	15	15	\$0.0037	₹0.27	\$0.0070	\$0.0405	\$0.0405	\$0.0031	₹0.20	\$0.0050	\$0.0315	\$0.0315	
VFBIOP2OBAG05	0.02	15x20	15	20	\$0.0049	₹0.36	\$0.0090	\$0.0414	\$0.0414	\$0.0042	₹0.27	\$0.0070	\$0.0322	\$0.0322	
VFBIOP2OBAG06	0.02	15x25	15	25	\$0.0062	₹0.45	\$0.0120	\$0.0421	\$0.0421	\$0.0052	₹0.34	\$0.0094	\$0.0329	\$0.0329	
VFBIOP2OBAG07	0.02	15x30	15	30	\$0.0074	₹0.54	\$0.0141	\$0.0429	\$0.0429	\$0.0063	₹0.41	\$0.0109	\$0.0336	\$0.0336	
VFBIOP2OBAG08	0.02	15x35	15	35	\$0.0086	₹0.64	\$0.0161	\$0.0438	\$0.0438	\$0.0073	₹0.48	\$0.0124	\$0.0343	\$0.0343	
VFBIOP2OBAG09	0.02	15x50	15	50	\$0.0124	₹0.91	\$0.0222	\$0.0461	\$0.0461	\$0.0104	₹0.68	\$0.0168	\$0.0365	\$0.0365	
VFBIOP2OBAG10	0.02	20x10	20	10	\$0.0032	₹0.23	\$0.0070	\$0.0419	\$0.0419	\$0.0028	₹0.18	\$0.0059	\$0.0313	\$0.0313	
VFBIOP2OBAG11	0.02	20x25	20	25	\$0.0079	₹0.57	\$0.0145	\$0.0450	\$0.0450	\$0.0070	₹0.45	\$0.0119	\$0.0342	\$0.0342	
VFBIOP2OBAG12	0.02	20x30	20	30	\$0.0095	₹0.68	\$0.0171	\$0.0460	\$0.0461	\$0.0084	₹0.54	\$0.0138	\$0.0350	\$0.0350	
VFBIOP2OBAG13	0.02	20x35	20	35	\$0.0111	₹0.79	\$0.0196	\$0.0472	\$0.0472	\$0.0097	₹0.63	\$0.0158	\$0.0359	\$0.0359	
VFBIOP2OBAG14	0.02	25x10	25	10	\$0.0039	₹0.27	\$0.0080	\$0.0442	\$0.0442	\$0.0035	₹0.23	\$0.0069	\$0.0317	\$0.0317	
VFBIOP2OBAG15	0.02	25x25	25	25	\$0.0097	₹0.68	\$0.0160	\$0.0478	\$0.0478	\$0.0087	₹0.57	\$0.0140	\$0.0352	\$0.0352	
VFBIOP2OBAG16	0.02	25x30	25	30	\$0.0116	₹0.82	\$0.0200	\$0.0492	\$0.0492	\$0.0104	₹0.68	\$0.0168	\$0.0365	\$0.0365	
VFBIOP2OBAG17	0.02	25x35	25	35	\$0.0135	₹0.95	\$0.0231	\$0.0504	\$0.0504	\$0.0122	₹0.79	\$0.0193	\$0.0375	\$0.0375	
VFBIOP2OBAG18	0.02	25x40	25	40	\$0.0155	₹1.09	\$0.0263	\$0.0516	\$0.0516	\$0.0139	₹0.91	\$0.0218	\$0.0386	\$0.0386	
VFBIOP2OBAG19	0.02	30x15	30	15	\$0.0068	₹0.48	\$0.0125	\$0.0477	\$0.0477	\$0.0063	₹0.41	\$0.0100	\$0.0336	\$0.0336	
VFBIOP2OBAG20	0.02	30x20	30	20	\$0.0091	₹0.64	\$0.0160	\$0.0492	\$0.0492	\$0.0084	₹0.54	\$0.0138	\$0.0350	\$0.0350	
VFBIOP2OBAG21	0.02	30x25	30	25	\$0.0114	₹0.79	\$0.0194	\$0.0507	\$0.0510	\$0.0104	₹0.68	\$0.0167	\$0.0365	\$0.0365	
VFBIOP2OBAG22	0.02	30x30	30	30	\$0.0137	₹0.95	\$0.0230	\$0.0523	\$0.0523	\$0.0125	₹0.82	\$0.0198	\$0.0378	\$0.0378	
VFBIOP2OBAG23	0.02	30x35	30	35	\$0.0160	₹1.11	\$0.0260	\$0.0537	\$0.0537	\$0.0146	₹0.95	\$0.0230	\$0.0392	\$0.0392	
VFBIOP2OBAG24	0.02	30x40	30	40	\$0.0182	₹1.27	\$0.0290	\$0.0553	\$0.0553	\$0.0167	₹1.09	\$0.0250	\$0.0406	\$0.0406	
VFBIOP2OBAG25	0.02	30x45	30	45	\$0.0205	₹1.43	\$0.0345	\$0.0568	\$0.0568	\$0.0188	₹1.22	\$0.0294	\$0.0420	\$0.0420	
VFBIOP2OBAG26	0.02	30x50	30	50	\$0.0228	₹1.59	\$0.0350	\$0.0582	\$0.0583	\$0.0209	₹1.36	\$0.0310	\$0.0434	\$0.0434	
VFBIOP2OBAG27	0.02	30x55	30	55	\$0.0251	₹1.75	\$0.0419	\$0.0598	\$0.0598	\$0.0230	₹1.50	\$0.0358	\$0.0447	\$0.0447	
VFBIOP2OBAG28	0.02	35x10	35	10	\$0.0053	₹0.36	\$0.0120	\$0.0470	\$0.0484	\$0.0049	₹0.32	\$0.0080	\$0.0324	\$0.0328	
VFBIOP2OBAG29	0.02	35x15	35	15	\$0.0079	₹0.54	\$0.0160	\$0.0470	\$0.0501	\$0.0073	₹0.48	\$0.0120	\$0.0339	\$0.0343	
VFBIOP2OBAG30	0.02	35x20	35	20	\$0.0105	₹0.73	\$0.0180	\$0.0470	\$0.0520	\$0.0097	₹0.63	\$0.0158	\$0.0355	\$0.0359	
VFBIOP2OBAG31	0.02	35x30	35	30	\$0.0158	₹1.09	\$0.0261	\$0.0554	\$0.0554	\$0.0146	₹0.95	\$0.0228	\$0.0392	\$0.0392	
VFBIOP2OBAG32	0.02	35x35	35	35	\$0.0184	₹1.27	\$0.0306	\$0.0572	\$0.0572	\$0.0171	₹1.11	\$0.0267	\$0.0408	\$0.0408	
VFBIOP2OBAG33	0.02	35x40	35	40	\$0.0210	₹1.45	\$0.0330	\$0.0589	\$0.0589	\$0.0195	₹1.27	\$0.0290	\$0.0423	\$0.0423	
VFBIOP2OBAG34	0.02	35x45	35	45	\$0.0236	₹1.63	\$0.0394	\$0.0606	\$0.0606	\$0.0219	₹1.43	\$0.0343	\$0.0440	\$0.0440	
VFBIOP2OBAG35	0.02	35x50	35	50	\$0.0263	₹1.81	\$0.0437	\$0.0623	\$0.0623	\$0.0244	₹1.59	\$0.0381	\$0.0457	\$0.0457	
VFBIOP2OBAG36	0.02	40x25	40	25	\$0.0149	₹1.02	\$0.0246	\$0.0490	\$0.0565	\$0.0139	₹0.91	\$0.0218	\$0.0381	\$0.0386	
VFBIOP2OBAG37	0.02	40x30	40	30	\$0.1700	₹1.22	\$0.0300	\$0.0585	\$0.0585	\$0.0167	₹1.09	\$0.0250	\$0.0406	\$0.0406	
VFBIOP2OBAG38	0.02	40x35	40	35	\$0.0208	₹1.43	\$0.0343	\$0.0605	\$0.0605	\$0.0195	₹1.27	\$0.0304	\$0.0423	\$0.0423	
VFBIOP2OBAG39	0.02	40x40	40	40	\$0.0238	₹1.63	\$0.0392	\$0.0624	\$0.0624	\$0.0223	₹1.45	\$0.0347	\$0.0443	\$0.0443	
VFBIOP2OBAG40	0.02	40x45	40	45	\$0.0268	₹1.84	\$0.0443	\$0.0644	\$0.0645	\$0.0251	₹1.63	\$0.0392	\$0.0461	\$0.0461	
VFBIOP2OBAG41	0.02	40x50	40	50	\$0.0298	₹2.04	\$0.0460	\$0.0664	\$0.0664	\$0.0279	₹1.81	\$0.0436	\$0.0480	\$0.0480	
VFBIOP2OBAG42	0.02	40x55	40	55	\$0.0300	₹2.24	\$0.0538	\$0.0741	\$0.0741	\$0.0290	₹1.99	\$0.0477	\$0.0555	\$0.0555	
VFBIOP2OBAG43	0.02	40x65	40	65	\$0.0387	₹2.65	\$0.0590	\$0.0781	\$0.0781	\$0.0362	₹2.36	\$0.0567	\$0.0592	\$0.0592	
VFBIOP2OBAG44	0.02	40x70	40	70	\$0.0417	₹2.86	\$0.0689	\$0.0799	\$0.0800	\$0.0390	₹2.54	\$0.0610	\$0.0612	\$0.0612	
VFBIOP2OBAG45	0.02	45x30	45	30	\$0.0199	₹1.36	\$0.0326	\$0.0570	\$0.0616	\$0.0188	₹1.22	\$0.0293	\$0.0411	\$0.0420	
VFBIOP2OBAG46	0.02	45x35	45	35	\$0.0233	₹1.59	\$0.0382	\$0.0600	\$0.0638	\$0.0219	₹1.43	\$0.0343	\$0.0430	\$0.0440	
VFBIOP2OBAG47	0.02	45x40	45	40	\$0.0266	₹1.81	\$0.0435	\$0.0640	\$0.0660	\$0.0251	₹1.63	\$0.0390	\$0.0450	\$0.0461	
VFBIOP2OBAG48	0.02	45x50	45	50	\$0.0332	₹2.27	\$0.0520	\$0.0761	\$0.0761	\$0.0313	₹2.04	\$0.0490	\$0.0560	\$0.0560	
VFBIOP2OBAG49	0.02	45x60	45	60	\$0.0399	₹2.72	\$0.0620	\$0.0805	\$0.0805	\$0.0376	₹2.45	\$0.0588	\$0.0601	\$0.0601	
VFBIOP2OBAG50	0.02	45x65	45	65	\$0.0432	₹2.95	\$0.0707	\$0.0828	\$0.0828	\$0.0407	₹2.65	\$0.0634	\$0.0622	\$0.0622	
VFBIOP2OBAG51	0.02	45x70	45	70	\$0.0465	₹3.17	\$0.0765	\$0.0849	\$0.0849	\$0.0439	₹2.85	\$0.0687	\$0.0643	\$0.0643	
VFBIOP2OBAG52	0.02	50x25	50	25	\$0.0184	₹1.25	\$0.0299	\$0.0623	\$0.0623	\$0.0174	₹1.13	\$0.0271	\$0.0409	\$0.0409	
VFBIOP2OBAG53	0.02	50x30	50	30	\$0.0220	₹1.50	\$0.0359	\$0.0647	\$0.0647	\$0.0209	₹1.36	\$0.0325	\$0.0434	\$0.0434	
VFBIOP2OBAG54	0.02	50x35	50	35	\$0.0257	₹1.75	\$0.0421	\$0.0672	\$0.0672	\$0.0244	₹1.59	\$0.0381	\$0.0457	\$0.0457	
VFBIOP2OBAG55	0.02	50x40	50	40	\$0.0294	₹2.00	\$0.0481	\$0.0695	\$0.0696	\$0.0279	₹1.81	\$0.0436	\$0.0480	\$0.0480	
VFBIOP2OBAG56	0.02	50x45	50	45	\$0.0330	₹2.24	\$0.0541	\$0.0777	\$0.0777	\$0.0313	₹2.04	\$0.0490	\$0.0560	\$0.0560	
VFBIOP2OBAG57	0.02	50x50	50	50	\$0.0367	₹2.49	\$0.0601	\$0.0802	\$0.0802	\$0.0348	₹2.27	\$0.0545	\$0.0583	\$0.0584	
VFBIOP2OBAG58	0.02	50x55	50	55	\$0.0404	₹2.74	\$0.0630	\$0.0826	\$0.0826	\$0.0383	₹2.49	\$0.0599	\$0.0606	\$0.0607	
VFBIOP2OBAG59	0.02	50x60	50	60	\$0.0441	₹2.99	\$0.0690	\$0.0850	\$0.0850	\$0.0418	₹2.72	\$0.0654	\$0.0629	\$0.0629	
VFBIOP2OBAG60	0.02	50x65	50	65	\$0.0477	₹3.24	\$0.0781	\$0.0890	\$0.0875	\$0.0453	₹2.95	\$0.0708	\$0.0652	\$0.0652	
VFBIOP2OBAG61	0.02	50x70	50	70	\$0.0514	₹3.49	\$0.0837	\$0.0899	\$0.0899	\$0.0487	₹3.17	\$0.0759	\$0.0676	\$0.0676	
VFBIOP2OBAG62	0.02	50x75	50	75	\$0.0551	₹3.74	\$0.0901	\$0.0923	\$0.0923	\$0.0522	₹3.40	\$0.0817	\$0.0699	\$0.0699	
VFBIOP2OBAG63	0.02	55x30	55	30	\$0.0241	₹1.63	\$0.0391	\$0.0679	\$0.0679	\$0.0230	₹1.50	\$0.0358	\$0.0447	\$0.0447	
VFBIOP2OBAG64	0.02	55x35	55	35	\$0.0281	₹1.90	\$0.0457	\$0.0705	\$0.0705	\$0.0268	₹1.74	\$0.0417	\$0.0473	\$0.0473	
VFBIOP2OBAG65	0.02	55x40	55	40	\$0.0322	₹2.18	\$0.0522	\$0.0789	\$0.0789	\$0.0306	₹1.99	\$0.0477	\$0.0555	\$0.0555	
VFBIOP2OBAG66	0.02	55x45	55	45	\$0.0362	₹2.45	\$0.0580	\$0.0780	\$0.0815	\$0.0345	₹2.24	\$0.0537	\$0.0565	\$0.0581	
VFBIOP2OBAG67	0.02	55x50	55	50	\$0.0402	₹2.72	\$0.0652	\$0.0810	\$0.0843	\$0.0383	₹2.49	\$0.0596	\$0.0589	\$0.0607	
VFBIOP2OBAG68	0.02	55x65	55	65	\$0.0523	₹3.54	\$0.0810	\$0.0940	\$0.0922	\$0.0498	₹3.24	\$0.0779	\$0.0660	\$0.0683	
VFBIOP2OBAG69	0.02	55x70	55	70	\$0.0563	₹3.81	\$0.0860	\$0.0949	\$0.0950	\$0.0536	₹3.49	\$0.0839	\$0.0707	\$0.0708	
VFBIOP2OBAG70	0.02	55x75	55	75	\$0.0603	₹4.08	\$0.0979	\$0.0975	\$0.0975	\$0.0574	₹3.74	\$0.0895	\$0.0734	\$0.0734	
VFBIOP2OBAG71	0.02	55x80	55	80	\$0.0643	₹4.35	\$0.1043	\$0.1020	\$0.1002	\$0.0613	₹3.99	\$0.0954	\$0.0731	\$0.0760	
VFBIOP2OBAG72	0.02	60x30	60	30	\$0.0262	₹1.77	\$0.0424	\$0.0710	\$0.0710	\$0.0251	₹1.63	\$0.0390	\$0.0461	\$0.0461	
VFBIOP2OBAG73	0.02	60x35	60	35											

Appendix 3



Generic BioPlastiQ Polybag Costing
Prepared for VF Group and SIMA Affiliates

L&E Item Code	Thickness MM	Dimensions			ExMks Price by Production Location										Remarks
					Side Seal with Fold Over and Taped Seal Design					Bottom Seal Design					
					LLLxWWW CM	LLL CM	WWW CM	India, New Delhi USD	India, New Delhi IDR	China, Guang Dong USD	Vietnam, HCMC USD	Indonesia, Central Java USD	India, New Delhi USD	India, New Delhi IDR	
VFBIOP2OBAG91	0.02	75 x 35	75	35	\$0.0379	₹2.54	\$0.0608	\$0.0840	\$0.0896	\$0.0366	₹2.38	\$0.0569	\$0.0578	\$0.0595	
VFBIOP2OBAG92	0.02	75 x 45	75	45	\$0.0487	₹3.26	\$0.0790	\$0.0840	\$0.0968	\$0.0470	₹3.06	\$0.0732	\$0.0630	\$0.0665	
VFBIOP2OBAG93	0.02	75 x 50	75	50	\$0.0541	₹3.63	\$0.0860	\$0.0900	\$0.1004	\$0.0522	₹3.40	\$0.0813	\$0.0670	\$0.0699	
VFBIOP2OBAG94	0.02	75 x 55	75	55	\$0.0595	₹3.99	\$0.0961	\$0.1040	\$0.1040	\$0.0574	₹3.74	\$0.0899	\$0.0734	\$0.0734	
VFBIOP2OBAG95	0.02	75 x 60	75	60	\$0.0650	₹4.35	\$0.1048	\$0.1075	\$0.1076	\$0.0627	₹4.08	\$0.0981	\$0.0768	\$0.0769	
VFBIOP2OBAG96	0.02	75 x 65	75	65	\$0.0704	₹4.72	\$0.1135	\$0.1060	\$0.1111	\$0.0679	₹4.42	\$0.1062	\$0.0772	\$0.0804	
VFBIOP2OBAG97	0.02	80 x 35	80	35	\$0.0403	₹2.70	\$0.0649	\$0.0929	\$0.0929	\$0.0390	₹2.54	\$0.0610	\$0.0612	\$0.0612	
VFBIOP2OBAG98	0.02	80 x 40	80	40	\$0.0461	₹3.08	\$0.0739	\$0.0967	\$0.0968	\$0.0446	₹2.90	\$0.0694	\$0.0649	\$0.0649	
VFBIOP2OBAG99	0.02	80 x 45	80	45	\$0.0518	₹3.47	\$0.0835	\$0.1006	\$0.1006	\$0.0501	₹3.26	\$0.0785	\$0.0685	\$0.0685	
VFBIOP2OBAG100	0.02	80 x 50	80	50	\$0.0576	₹3.85	\$0.0930	\$0.0960	\$0.1044	\$0.0557	₹3.63	\$0.0872	\$0.0697	\$0.0722	
VFBIOP2OBAG101	0.02	80 x 55	80	55	\$0.0634	₹4.24	\$0.1010	\$0.0970	\$0.1083	\$0.0613	₹3.99	\$0.0954	\$0.0720	\$0.0760	
VFBIOP2OBAG102	0.02	80 x 65	80	65	\$0.0749	₹5.01	\$0.1206	\$0.1240	\$0.1240	\$0.0724	₹4.71	\$0.1133	\$0.1040	\$0.1041	
VFBIOP2OBAG103	0.02	80 x 70	80	70	\$0.0807	₹5.39	\$0.1250	\$0.1278	\$0.1279	\$0.0780	₹5.08	\$0.1160	\$0.1076	\$0.1078	
VFBIOP2OBAG104	0.02	80 x 110	80	110	\$0.1267	₹8.48	\$0.2031	\$0.1660	\$0.1584	\$0.1225	₹7.98	\$0.1908	\$0.1190	\$0.1374	
VFBIOP2OBAG105	0.02	85 x 55	85	55	\$0.0672	₹4.49	\$0.1070	\$0.1125	\$0.1125	\$0.0651	₹4.24	\$0.1019	\$0.0784	\$0.0784	
VFBIOP2OBAG106	0.02	85 x 60	85	60	\$0.0733	₹4.90	\$0.1173	\$0.1190	\$0.1247	\$0.0710	₹4.62	\$0.1106	\$0.0998	\$0.1032	
VFBIOP2OBAG107	0.02	85 x 65	85	65	\$0.0794	₹5.30	\$0.1270	\$0.1190	\$0.1287	\$0.0769	₹5.01	\$0.1198	\$0.1035	\$0.1071	
VFBIOP2OBAG108	0.02	90 x 45	90	45	\$0.0581	₹3.88	\$0.0933	\$0.1082	\$0.1082	\$0.0564	₹3.67	\$0.0883	\$0.0727	\$0.0727	
VFBIOP2OBAG109	0.02	90 x 50	90	50	\$0.0646	₹4.31	\$0.1040	\$0.1125	\$0.1125	\$0.0627	₹4.08	\$0.0981	\$0.0768	\$0.0769	
VFBIOP2OBAG110	0.02	90 x 60	90	60	\$0.0775	₹5.17	\$0.1244	\$0.1291	\$0.1291	\$0.0752	₹4.89	\$0.1177	\$0.1059	\$0.1059	
VFBIOP2OBAG111	0.02	90 x 80	90	80	\$0.1033	₹6.89	\$0.1580	\$0.1463	\$0.1463	\$0.1003	₹6.53	\$0.1561	\$0.1225	\$0.1226	
VFBIOP2OBAG112	0.02	95 x 110	95	110	\$0.1497	₹9.97	\$0.2389	\$0.1787	\$0.1788	\$0.1455	₹9.47	\$0.2266	\$0.1526	\$0.1527	
VFBIOP2OBAG113	0.02	100 x 120	100	120	\$0.1717	₹11.42	\$0.2737	\$0.1950	\$0.1952	\$0.1671	₹10.88	\$0.2603	\$0.1669	\$0.1671	
VFBIOP2OBAG114	0.02	120 x 100	120	100	\$0.1709	₹11.33	\$0.2714	\$0.1890	\$0.2015	\$0.1671	₹10.88	\$0.2602	\$0.1594	\$0.1671	

Additional Information/ Program Terms:
Min. Material Run Qty: 25KG NuPlastiQ MB
Seasonal Size Min. Qty: 50K
Min. Production Run Qty: 5K/ Size
NuPlastiQ MB Ratio to PE: 20%
Bag Thickness: ~20 Microns +/-5%

Leadtime:
Bio-Material Leadtime: 60 Days
New size Development Lead-time: 30 Days
Production Lead-time: 20 Days + Export Delivery Timing as/ if needed

Delivery:
Bundled and Wrapped in Polybags.
If added packing is needed for export or longer distance deliveries, this may be added cost.

Validity:
Through Dec. 31, 2019 unless there are material cost market variances over +/-8%.
Exchange Rates to Local Currency in Vietnam, Indonesia, and China will use the standard monthly bank rate, and will be determined the 1st of each month.

Payment:
We generally accept payment terms within 30 days with establish credit rating approval.
Without established credit rating approval, we will need payment in advance until related credit approval can be confirmed.



THANK YOU
