



Advance

BIO Material

(RAW MATERIALS DIVISION)



**Welcome to the Exciting
FUTURE OF BIOPLASTICS**

EXTRUSION & BAGMAKING GRADES

Product Grade Name	Properties	Applications
ADFLEX-FT-2	<ul style="list-style-type: none"> • Easy to process • Cost competitive • High strength 	Blown Films, Carry Bags, Shopping Bags, Roll on Bags, Garbage Bags
ADFLEX-FT-3	<ul style="list-style-type: none"> • Excellent mechanical properties • Can be used for making blend for multilayer film • Very good sealing properties 	Clear Film and Sheet, Multilayer Film, High Strength Film, Blown Films, Carry Bags, Shopping Bags, Grocery Bags
ADFLEX-FT-4	<ul style="list-style-type: none"> • Excellent transparency • Can be used for making blend • Excellent sealing properties • Very good rigidity 	Multilayer Film, To get more Clarity and Stiffness, For making Blend
ADFLEX-FT (Transparent Blend)	<ul style="list-style-type: none"> • Excellent transparency • Excellent sealing properties • Easy to process 	Transparent Bags, Garment Bags



INJECTION MOLDING GRADES

Product Grade Name	Properties	Applications
ADFLEX-FT-5 (General Purpose)	<ul style="list-style-type: none"> • Easy to process. • Excellent mechanical properties • Suitable for general purpose injection molding 	Spoons, Forks, Knives, Stirrers
ADFLEX-FT-5 (High Melt Flow)	<ul style="list-style-type: none"> • High melt flow • Easy to process • Excellent mechanical properties • Suitable for multicavity and thin wall applications 	Small Injection molded containers, Tray, Tubs, Covers
ADFLEX-FT-5 (High Heat)	<ul style="list-style-type: none"> • Good thermal stability • Suitable for high heat applications 	Spoons, Fork, Knives, Stirrers etc. for use with hot foods



BLOW MOULDING GRADE

Product Grade Name	Properties	Applications
ADFLEX-FS-EBM	<ul style="list-style-type: none"> • Industrial Compostable • Easy to Processed 	Water Bottle, Pharma Bottle, Replacement of PET
ADFLEX-FS (Per Grade)	<ul style="list-style-type: none"> • Controlled Melt Flow • High Strength • Bio Based 	General Purifier Bottles Replacement of PP & PC
ADFLEX-FS-HBM	<ul style="list-style-type: none"> • Bio Based Compostable • Very High Gas Barrier 	Sparkling Bottle, Soft Drink, Replacement of PET



THERMOFORMING GRADES

Product Grade Name	Properties	Applications
ADFLEX-FT-6-Clear (General Purpose)	<ul style="list-style-type: none"> • Easy to process • Suitable for general purpose applications 	Glasses, Cups, Trays, Plates
ADFLEX-FT-6-Clear (High Heat)	<ul style="list-style-type: none"> • Easy to process • Suitable for high heat applications 	Glasses, Cups, Trays, Plates etc. for use with hot foods
ADFLEX-FT-6-Opaque (General Purpose)	<ul style="list-style-type: none"> • Cost competitive • Suitable for high strength applications 	Glasses, Cups, Trays, Plates
ADFLEX-FT-6-Opaque (High Heat)	<ul style="list-style-type: none"> • Easy to process • Cost competitive 	Glasses, Cups, Trays, Plates etc. for use with hot foods



HOME COMPOSTABLE GRADE

Product Grade Name	Properties	Applications
ADFLEX-FT Home Compost	<ul style="list-style-type: none"> • Suitable for home composting & Industrial composting • More than 40% bio-based carbon • High strength • Easy to process 	Carry Bags, Shopping Bags, Roll on Bags, Garbage Bags



STRAW GRADES

Product Grade Name	Properties	Applications
ADFLEX-FT-7	<ul style="list-style-type: none"> • Easy to process • Excellent mechanical properties • Flexible to bending 	Straight Straw and Bent Straw



3D PRINTER FILAMENT GRADE

Product Grade Name	Properties	Applications
ADFLEX-FT-8 (Filament Grade)	<ul style="list-style-type: none"> • Easy to process • Low printing temperature • Easy post processing • Variety of colors and blending • Biodegradable 	Manufacturing of Filament for 3D Printers



FILLER MASTERBATCH

Product Grade Name	Properties	Applications
ADFLEX FT-F	<ul style="list-style-type: none"> • Good dispersion • Mechanical strength improvement. • Cost reduction 	Can be used for blending, Blow n films, Carry bags, Shopping bags, Roll on bags, Garbage bags




COLOUR MASTERBATCH

Product Grade Name	Properties	Applications
ADFLEX FT-CMB	<ul style="list-style-type: none"> • Good dispersion • Low dosage 	Can be used for blown film, Injection molding, Thermoforming




SPECIALITY MASTER BATCHES


ANTIBLOCK MASTERBATCH

Product Grade Name	Properties	Application	
ADFLEX-FT-ABM	<ul style="list-style-type: none">• No reduction of transparency of film• Reduces friction between films• Maintain smoothness on the surface	Bio plastic blown film products Blow moulding Injection moulding	

SLIP MASTERBATCH

Product Grade Name	Properties	Application	
ADFLEX-FT-SMB & NMS	<ul style="list-style-type: none">• preventing film layers from sticking• improving film handling	Garment Bags Thin transparent film	

CHAIN EXTENDER AND COMPATIBILIZER MASTERBATCH

Product Grade Name	Properties	Application	
ADFLEX-FT-CEMB	<ul style="list-style-type: none">• Increases PLA's molecular weight• Enhancing its mechanical properties• Increase compatibility	PLA PBAT Blend Carry bags, Shopping bags	

ABOUT US

Advance Bio Material Co. Pvt. Ltd. is an innovator and is dedicated to developing high-performance Bioplastics in India. Our passion is in delivering functional bio-polymers and its products to our customers who perform in their own markets and meet product performance criteria at a reasonable cost and deliver great bio-credentials.

Our business is backed by vast experience in developing high-quality materials in this sector. Our high caliber team members have a wealth of polymer experience and pride themselves on a fundamental understanding of how our materials perform at its best both technically and in our customers' markets.

We are committed to provide all necessary support to our customers, starting from selecting the right product, trials and testing, its conversion, performance on further packaging, usage, technical, legal and composting requirements.

BIOPLASTICS RAW MATERIALS

ADFLEX Bioplastics raw materials is derived from natural, renewable resources and is optimized for its performance. It faces a major challenge in terms of comparative performance against conventional plastics and cost. We are continually working to meet these challenges by developing cost competitive high-performance Bioplastics raw materials.

Our ADFLEX Bioplastics raw materials are 100% compostable and biodegradable within 180 days. They can be fully decomposed into carbon dioxide, water and minerals, which in turn is good for crops causing no harm and toxicity to the farmland and conforms to International Standards-EN13432 and ISO17088:2012.



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