





ARIA POLYMER is a multinational enterprise to provide technology research and manufacture top-notch additives and functional polymers, founded in 2009.

ARIA POLYMER is one of the few players in the region to develop series of products to meet domestic and international market needs, including:

- · MALEIC ANHYDRIDE GRAFTED POLYMERS used as Coupling Agent and Compatibilizer, and
- TIE LAYER ADHESIVES used in Multilayer Structures, e.g., Multilayer Films, Pipes, Tubes, etc.;

In addition to these high-tech products, ARIA POLYMER manufactures a wide range of

ADDITIVE MASTERBATCHES to improve specifications of different polymers.

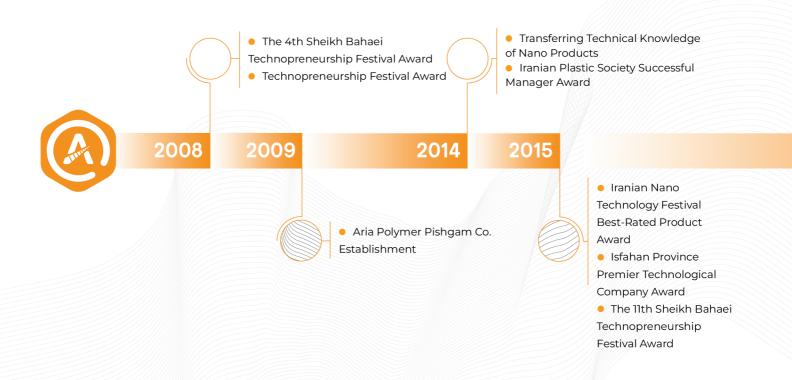
Accordingly, our various products are widely used in:

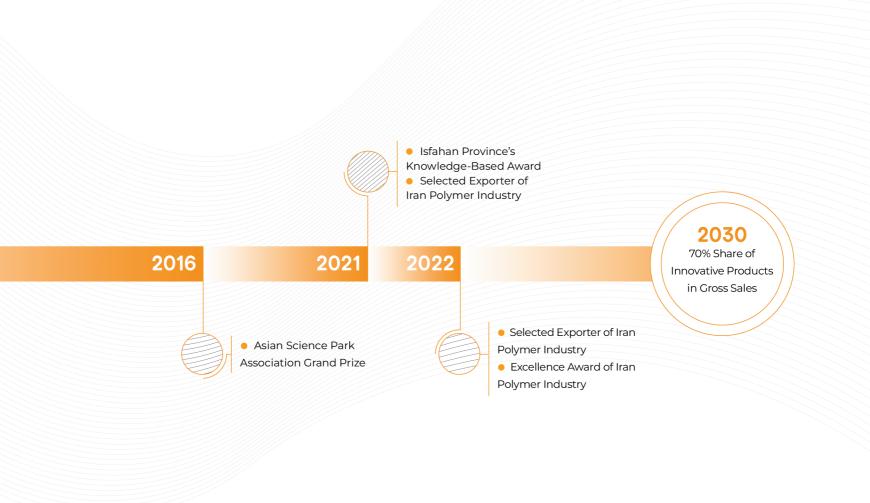
Automotive Compounds and Parts, Pipes, Packaging, Building and Civil Constructions, Medical Tools; and Consumer Goods.

Holding ISO 9001, ISO 10004 and ISO 17025, Food and Drug Compliance, Oil Ministry Confirmation, being a member of different associations in Plastic and Polymer fields, having a well-equipped internal lab, accessing a wide range of petrochemical companies and a powerful supply chain, accessing university, knowledge poles and gifted graduated students, are all juxtaposed to enable ARIA POLYMER to provide the customers with state-of-the-art products.

And all these make us believe THERE IS ALWAYS A BETTER WAY...

Aria Polymer: from the Beginning to 2030 **Timeline**





ADDITIVE MASTERBATCH

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27 Aria Add 221528 Aria Add 2180

Anti-Static Masterbatch for CPP films

Desiccant Masterbatch

COUPLING AGENT, COMPATIBILIZER

31 Aria Couple 1432T112

Maleic Anhydride Grafted Polypropylene

ARIA COMPOUND

- 33 Aria Comp 4203 Impact Modifier and Stitching Improver Based Polyolefin
- 34 Aria Comp 4410 Impact Modifier Based Polypropylene
- 35 Aria Comp 4329Polyolefin Compound (Injection Molding)





Anti-Block Agent Masterbatch

Aria Add 2124

Description

Aria Add 2124 is an economical anti-block agent masterbatch, containing additives which create separation between the surfaces and improve performance characteristics in blown film and cast application. Typically, anti-block additives have low compatibility with the polymer, allowing migration to the film surface

Product Application

Anti-block agent for blown film and cast application

Advantages

- · Increase separation of film layers
- · Improve performance characteristic
- · Melt flow control



Properties	Value	Method
Appearance	White Granules	-
Carrier Resin	PE	-
Active Ingredients	>10%	-
Density	0.92±0.01 g/cm ³	ASTM D792
Melt Flow Index @190°C /2.16kg	4.5±1.5 g/10min	ASTM D1238
Usage Level	0.5-5%	-



Slip Agent Masterbatch **Aria Add 2126**

Description

Aria Add 2126 is an economical slip agent masterbatch based on polyethylene, containing additives which manage the coefficient of friction and create separation between the surfaces and improve performance characteristics in blown film and cast application

Product Application

Slip agent for blown film and cast application

Mold release agent for injection molding

Advantages

- · Friction reduction, fast slip
- · Increase separation of film layers
- · Improve performance characteristic
- · Melt flow control
- · Improve surface finish
- \cdot Improve flow dispersion of filled polymers
- · Reduce machine wear and cleaning time
- · Increase production rate



/	Properties	Value	Method
	Appearance	White Granules	-
	Carrier Resin	PE	-
	Active Ingredients	>10%	-
	Density	0.92±0.01 g/cm ³	ASTM D792
	Melt Flow Index @190°C /2.16kg	4.5±1.5 g/10min	ASTM D1238
\	Usage Level	0.5-5%	-

Slip Agent Masterbatch **Aria Add 2226**

Description

Aria Add 2226 is an economical slip agent masterbatch based on polypropylene, containing additives which manage the coefficient of friction and create separation between the surfaces and improve performance characteristics in film and cast application

Product Application

Slip agent for film and cast application

Advantages

- · Friction reduction
- Product processing: sheet, film & other extrusion processes (PP)
- · Increase production rate
- Improve flow & dispersion of filled polymers



Properties	Value	Method	١
Appearance	Milky Granules	-	
Carrier Resin	PP	-	
Active Ingredients	>10%	-	
Density	0.91±0.01 g/cm ³	ASTM D792	
Melt Flow Index @230°C /2.16kg	6±2 g/10min	ASTM D1238	
Usage Level	0.5-2%	-	/

Slip & Anti-Block Agent Masterbatch

Aria Add 2236

Description

Aria Add 2236 is a slip & antiblock agent masterbatch based on polypropylene and contains additives which manage an optimal mix between slip agent and anti-block agent and provide the coefficient of friction and create separation between the surfaces. It improves performance characteristics in blown film and cast applications

Product Application

Slip & anti-block for blown and cast applications

Advantages

- · Friction reduction
- · Melt flow control
- · Increase separation of film layers
- · Improve performance characteristic



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(Properties	Value	Method	
	Appearance	White to Grayish Granules	-	
	Carrier Resin	PP	-	
	Active Ingredients	>15%	-	
	Density	0.92±0.02 g/cm ³	ASTM D792	
	Melt Flow Index @190°C /2.16kg	6±2 g/10min	ASTM D1238	
	Usage Level	0.5-2.5%	-	
\setminus				

Anti-UV Masterbatch Aria Add 2173

Description

ria Add 2173 is a polyethylene-based masterbatch designed to provide long-lasting protection for PE products. It is a light stabilizer masterbatch containing a mixture of HALS (Hindered Amide Light Stabilizer) & UV absorbers

Product Application

UV protection, especially for PE films, sheets & parts

Advantages

- · Increasing product lifetime
- · Increasing color stability
- · Preserving physical and mechanical degradation



	Properties	Value	Method	
	Appearance	Yellowish Granules	-	
	Carrier Resin	LDPE	-	
	Active Ingredients	>20%	-	
	Density	0.92±0.01 g/cm³	ASTM D792	
	Melt Flow Index @190°C /2.16kg	4.5±1 g/10min	ASTM D1238	
\	Usage Level	0.5-10%	-	
				/



Anti-UV Masterbatch Aria Add 2176

Description

ria Add 2176 is a polyethylene-based masterbatch designed to provide longlasting protection for PE products. It is a light stabilizer masterbatch containing a mixture of HALS (Hindered Amide Light Stabilizer) & UV absorbers.

Product Application

UV protection, especially for PE films, sheets & parts

Advantages

- · Increasing product lifetime
- · Increasing color stability
- Preserving physical and mechanical degradation



Properties	Value	Method
Appearance	Yellowish Granules	-
Carrier Resin	LDPE	-
Active Ingredients	>20%	-
Density	0.92±0.01 g/cm ³	ASTM D792
Melt Flow Index @190°C /2.16kg	7±2.5 g/10min	ASTM D1238
Usage Level	0.5-10%	-

Anti-UV Masterbatch Aria Add 2273

Description

Aria Add 2273 is a polypropylenebased masterbatch designed to provide long-lasting protection for PP films, sheets & parts. It is a light stabilizer masterbatch containing a mixture of HALS (Hindered Amide Light Stabilizer) & UV absorbers

Product Application

UV protection for PP parts, packaging, especially woven bags & nonwoven fabrics

Advantages

- · Increasing product lifetime
- · Increasing color stability
- · Preserving physical and mechanical degradation



Properties	Value	Method
Appearance	Granules	-
Carrier Resin	PP	-
Active Ingredients	>20%	
Density	0.91±0.01 g/cm ³	ASTM D792
Melt Flow Index @190°C/2.16kg	5±2 g/10min	ASTM D1238
Usage Level	1-5%	



Black Masterbatch **Aria Add 2191**

Description

- · Aria Add 2191 is a carbon black polyethylene based masterbatch, specially designed for coloring of polyethylene in injection molding and compounding applications, and also increase the UV-resistance of plastic products
- The black masterbatch based on a mixture of polyethylene filled with 40% carbon black is mainly used for any pipe productions, packaging film, and geomembrane industries



Product Application

Black Masterbatch for pipe, packaging film, and geomembrane

Advantages

- · High dispersion
- · High thermal stability
- · Completely miscible vast range of plastic

/	Properties	Value	Method
	Appearance	Black Granules	-
	Carbon Black Pigment	40±1%	ASTM D4218
	Carrier Resin	PE	-
	Density	1.1±0.1 g/cm³	ASTM D792
	Melt Flow Index @190°C/2.16kg	15±3 g/10min	ASTM D1238
	Absorption Moisture	<0.1%	ASTM D570
	OIT (200°C)	40 min ≤ OIT	ISIRI 7186-6
	Usage Level	According to cond	tion and requirements

White Masterbatch Aria Add 2113–1

Description

Aria Add 2113-1 is a white masterbatch containing 70% finely dispersed white pigment and PE carrier resin, which provides optimum opacity for blown and cast films, extrusion, and injection parts

Product Application

White masterbatch for film, extrusion, tube, and injection

Advantages

- · Well Dispersed
- · Very high color strength
- · Excellent Whiteness
- · Good Melt strength



Properties	Value	Method
Appearance	White Granules	-
White Pigment	70±2%	ASTM D4218
Carrier Resin	PE	-
Density	1.9±0.2 g/cm³	ASTM D792
Melt Flow Index @190°C/2.16kg	30±10 g/10min	ASTM D1238
Moisture	Max 0.1%	ASTM D644
Usage Level	According to cond	ition and requirements



White Masterbatch

Aria Add 2113-4

Description

Aria Add 2113-4 is a white masterbatch containing more than 60% finely dispersed white pigment, PE carrier resin, and Optical briahtener. which provides optimum opacity for blown and cast films, extruded sheet, and injection or blow molded parts

• Product Application

White masterbatch for Film, Injection, and extruded sheet

Advantages

- · Well Dispersed
- · Excellent Hiding Power
- Excellent Whiteness
- · Good Melt strength



• Technical Specifications

Properties

Appearance

Value

Method

White Pigment

60±2%

Bluish Color Shade Granules **ASTM D4218**

Carrier Resin

1.8±0.1 g/cm³

PΕ

ASTM D792

Melt Flow Index @190°C/2.16kg

45±10 g/10min **ASTM D1238**

Moisture

Density

Max 0.1%

ASTM D644

Usage Level

According to condition and requirements

White Masterbatch **Aria Add 2113–5**

Description

Aria Add 2113-5 is a white masterbatch of 60% finely dispersed white pigment, which provides optimum opacity for Rotational molded parts, blown and cast films, and injection or blow molded parts

Product Application

White masterbatch for Rotational molded parts

Advantages

- · Well Dispersed
- · Excellent Hiding Power
- · Excellent Whiteness
- · Good Melt strength



Properties	Value	Method
Appearance	Bluish White Gra	anules
White Pigment	60±2%	ASTM D4218
Carrier Resin	PE	-
Density	1.7±0.1 g/cm ³	ASTM D792
Melt Flow Index @190°C/2.16kg	45±5 g/10min	ASTM D1238
Moisture	Max 0.1%	ASTM D644
Usage Level	According to con-	dition and requirements



White Masterbatch **Aria Add 2114**

Description

properties

Aria Add 2114 is a well-dispersed polyethylene based masterbatch
Aria Add 2114 has very high color strength and good flow

Product Application

White masterbatch for PE

Advantages

- · Well Dispersed
- · Excellent Hiding Power
- · Excellent Whiteness
- · Good Melt strength



Technical Specifications

Properties Value Method White Granules Appearance White Pigment 70±2% **ASTM D4218** PΕ Carrier Resin 1.8±0.2 g/cm³ ASTM D792 Density Melt Flow Index @190°C/2.16kg 3±1 g/10min ASTM D1238 Max 01% ASTM D644 Moisture According to condition and requirements Usage Level

Processing Aid Masterbatch

Aria Add 2105

Description

Aria Add 2105 is a processing aid (PPA) masterbatch, containing fluoropolymer (PVDF) based in a polyethylene carrier. It can improve PE processing and be recommended for polyolefin films, sheets, pipes, tubes, extrusion processes and stone paper

Product Application

PPA for polyolefin films, sheets, pipes, tubes and paper stone

Advantages

- · Surface smoothness
- · Less machine-direction drawing
- · Improve the processability of recycled polymer
- · Die build-up monitoring in Cast Film Line
- · Improve processing lower MFI resins
- Melt fracture elimination

Value

· Reduce operating pressure and temperature

Method

· Increase output and energy saving



• Technical Specifications

Properties

Appearance White Granules

Carrier Resin PE -

Density 0.92±0.01 g/cm³ ASTM D792

Melt Flow Index @190°C/2.16kg 2±1 g/10min ASTM D1238

Usage Level 0.5-2.5% -



Optical Brightener Masterbatch

Aria Add 2161

Description

- · Optical brightener masterbatch (fluorescent whitening agent) absorbs some part of the UV ray and re-emits it in the blue region of the visible spectrum.
- · Aria Add 2161 is added in polymers to reduce yellowing, improve whiteness, and enhance the brightness of a product

Product Application

PE films, sheets, parts and other extrusion processes

Advantages

- · Mask natural yellowing plastics
- · Improve initial color
- · Get brilliancy of colored articles
- · It gives a smooth & glossy surface to film
- Absorbs UV radiation



• Technical Specifications

Properties Value Method Appearance Phosphoric Granules Carrier Resin HDPE Density 0.92±0.02 g/cm³ ASTM D792 Melt Flow Index @190°C/2.16kg 5±1 g/10min ASTM D1238 Usage Level 0.2-1%



Optical Brightener Masterbatch

Aria Add 2162

Description

- · Optical brightener masterbatch (fluorescent whitening agent) absorbs some part of the UV ray and re-emits it in the blue region of the visible spectrum
- · Aria Add 2162 is added in polymers to reduce yellowing, improve whiteness, and enhance the brightness of a product

Product Application

PE films, sheets, parts and other extrusion processes

Advantages

- · Mask natural yellowing plastics
- · Improve initial color
- · Get brilliancy of colored articles
- · It gives a smooth & glossy surface to film
- Absorbs UV radiation



• Technical Specifications

Properties

Value

Method

Appearance Phosphoric Granules

Carrier Resin HDPE -

Density 0.92±0.02 g/cm³ ASTM D792

Melt Flow Index @190°C/2.16kg 5±1 g/10min ASTM D1238

Usage Level 0.2-1% -



MFI Modifier Masterbatch Aria Add 2445

Description

- · Polypropylene based masterbatch reactive extrusion
- MFI modifier and viscosity reducer masterbatch

Product Application

PP Melt Flow increase as masterbatch

Advantages

- · Enhance melt blown process
- · Increase MFI of PP compounds
- · Increase production rate
- Better and softer surface properties of melt blown products
- · Reduce warpage
- · Improve mixing of pigment/color and filler in PP matrix



Properties	Value	Method
Appearance	White Granules	-
Carrier Resin	PP	-
Density	0.9±0.01 g/cm³	ASTM D792
Melt Flow Index @190°C/2.16kg	>70 g/10min	ASTM D1238
Usage	0.5-10%	-

MFI Modifier Masterbatch Aria Add 2440T136

Description

- · Polypropylene based masterbatch reactive extrusion
- · MFI modifier and viscosity reducer masterbatch

Product Application

PP Melt Flow increase as masterbatch

Advantages

- · Enhance melt blown process
- · Increase MFI of PP compounds
- · Increase production rate
- Better and softer surface properties of melt blown products
- · Reduce warpage
- · Improve mixing of pigment/color and filler in PP matrix



• Technical Specifications

Properties Value Method Appearance Phosphoric Granules Carrier Resin PP Density 0.9±0.01 g/cm³ ASTM D792 Melt Flow Index @190°C/2.16kg ≥100 g/10min ASTM D1238 Usage Level 1-10%



Anti-Static Masterbatch Aria Add 2115

Description

Aria Add 2115 is anti-static masterbatch with anti-static additives for neutralizing the surface charges of polyethylene polymers. Anti-static additives can reduce or eliminate static electrical charges to prevent problems such as dust accumulation (which can ruin clarity and surface finish) and electronic static discharge damaging electronic equipment

Product Application

Anti-static for PE films, PE sheets, and Injection molded parts

Advantages

- · Reduces Surface Resistivity of Plastics
- · Prevents dust attraction to plastic parts
- Reduces Static charge built-up on plastics
- Prevents shock discharge during production and handling



Properties	Value	Method
Appearance	Milky Granules	-
Active Ingredients	>10%	-
Carrier Resin	PE	-
Density	0.92±0.01 g/cm ³	ASTM D792
Melt Flow Index @190°C/2.16kg	4±2 g/10min	ASTM D1238
Usage	0.5-3%	-



Anti-Static Masterbatch for CPP films

Aria Add 2215

Description

Aria Add 2215 is an anti-static masterbatch with anti-static additive for neutralizing the surface charges of polypropylene polymers. Anti-static additives reduce eliminate can static electrical charges to prevent problems such as dust accumulation and electronic discharge damaging static equipment electronic

Product Application

Anti-static for CPP films

Advantages

- · Reduces Surface Resistivity of Plastics
- · Prevents dust attraction to plastic parts
- · Reduces risk of electrical discharge causing fire or explosion



Properties	Value	Method
Appearance	White Granules	-
Active Ingredients	>10 %	-
Carrier resin	PP	-
Density	0.9±0.01 g/cm³	ASTM D792
Melt Flow Index @230°C/2.16kg	7±1 g/10min	ASTM D1238
Usage Level	2-10%	-
	<u>.</u>	



Desiccant Masterbatch Aria Add 2180

Description

Aria Add 2180 is a desiccant masterbatch designed to absorb the moisture in plastics and nylon in order to eliminate moisturerelated problems

Product Application

Desiccant masterbatch

Advantages

- · Improves product quality and yield
- \cdot Increase productivity and reduce energy consumption
- Reduce prevention of moisture-related problems, including lacing and porosity of the molded problem
- Minimizes down glossing and hazing under high humidity application conditions



Properties	Value	Method
Appearance	Granules	-
Active Ingredients	>70%	-
Carrier Resin	PE	-
Density	1.9±0.1 g/cm ³	ASTM D792
Melt Flow Index @190°C/2.16kg	1±0.5 g/10min	ASTM D1238
Usage	0.5-1.5%	-





Maleic Anhydride Grafted Polypropylene Aria Couple 1432T112

Description

- · Maleic anhydride functionalized polypropylene produced by reactive extrusion
- · Coupling agent & compatibilizer between polyolefin & polar polymers, fillers, etc.

Product Application

Usage

1.5-2.5%

1.5-3%

COUPLING AGENT FOR PP &

· Reinforcing materials e.g., GF in PP/GF compounds

· Fillers e.g., CaCo3 polyolefinbased compounds

COMPATIBII IZER BETWEEN PP &

Polar polymers e.g., polyamide 1.5-3%

Advantages

DISPERSION

Achieve optimum dispersion & distribution of polar polymer, fillers, starch, glass fiber, etc. in non-polar polymer matrix

MECHANICAL **PROPERTIES**

Improve mechanical properties e.g., tensile strength, impact resistance & flexural modulus in polyolefin & biodegradable containers

OTHER

- · Eliminate output variation
- · Increase permeability of polyolefin
- · Achieve dimensional stability
- · Increase surface smoothness of final products

• Technical Specifications

Properties

Value

Method

Density

0.91 g/cm³

ASTM D792

Melt Flow Index @190°C/2.16kg

75±25 a/10min ASTM D1238

Maleic Anhydride Graft Level High*

Titration Method

^{*} Low <0.25wt%, Medium 0.25-0.5wt%, High 0.5-1.0wt%





ARIA COMP is a basic and widely-used category of polymers to enable the customers use their required material in the simplest possible way.

ARIA COMP includes a grade of 3LPE Top Coat Compound, and some Polyolefin Impact Modifiers.



Impact Modifier and Stitching Improver Based Polyolefin

Aria Comp 4203

Description

Aria Comp 4203 polymer resin is a polyolefin base compound. It has been primarily designed to act as an impact modifier of polypropylene and polyethylene containers and parts

Product Application

- · Containers and parts
- · Sealant film
- · PF film
- · Stretch film

Advantages

- Improving impact properties of polyolefin containers without changing in transparency
- · Increase in film stretch and elongation



• Technical Specifications

Properties Value Method Density 0.90±0.02 g/cm³ ASTM D792 Melt Flow Index @190°C/2.16kg 2.7±0.5 g/10min ASTM D1238 Usage Level 1-5 % -



Impact Modifier Based Polypropylene

Aria Comp 4410

Description

Aria Comp 4410 polymer resin is a polypropylene base compound. It has been primarily designed to act as an impact modifier of polypropylene containers and parts

Product Application

Containers and parts

Advantages

- Improving impact properties of polyolefin containers without changing in transparency
- · Scratch resistance of PP plastic containers



• Technical Specifications

Properties

Density

Value 0.91±0.02 g/cm³

ASTM D792

Method

Melt Flow Index @190°C/2.16kg

2.5±1 g/10min

ASTM D1238

Usage Level

3-7 %



Polyolefin Compound (Injection Molding)

Aria Comp 4329

Description

Aria Comp 4329 polymer resin is a polyolefin base compound. It has been primarily designed to injection molding for parts

Product Application

Injection molding for parts

Advantages

- Good impact properties
- Proper processability



Processing Condition Suggestion

Zone2(°C)

• Technical Specifications

Properties

0.92+0.01 av

Method

Density 0.92±0.01 g/cm³ ASTM D792 Melt Flow Index @230°C/2.16kg 9±3 g/10min **ASTM D1238** Melting Temperature 150+5 °C ISO 113571 Vicat Softening Point 134±4°C **ASTM D1525** Tensile Strain at Break(50mm/min) >120 % ASTM D638 Tensile Stress at Yield(50mm/min) 23±5 MPa ASTM D638 Flexural Modulus 1500 MPa ASTM D790 Izod Impact Strength (notched) 78 J/m ASTM D256

...(°C)

Zone1(°C)

180...200 180...200

Zone3(°C)

180...200

at 23 °c

Zone4(°C)

200...210 200...210

Die(°C)

210...230



• Notes		



Download Catalogue





