



There Is Always a Better Way

ARIA POLYMER

Product Catalogue for the **Textile** Industry



THERE IS ALWAYS A BETTER WAY...



ARIA POLYMER

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:

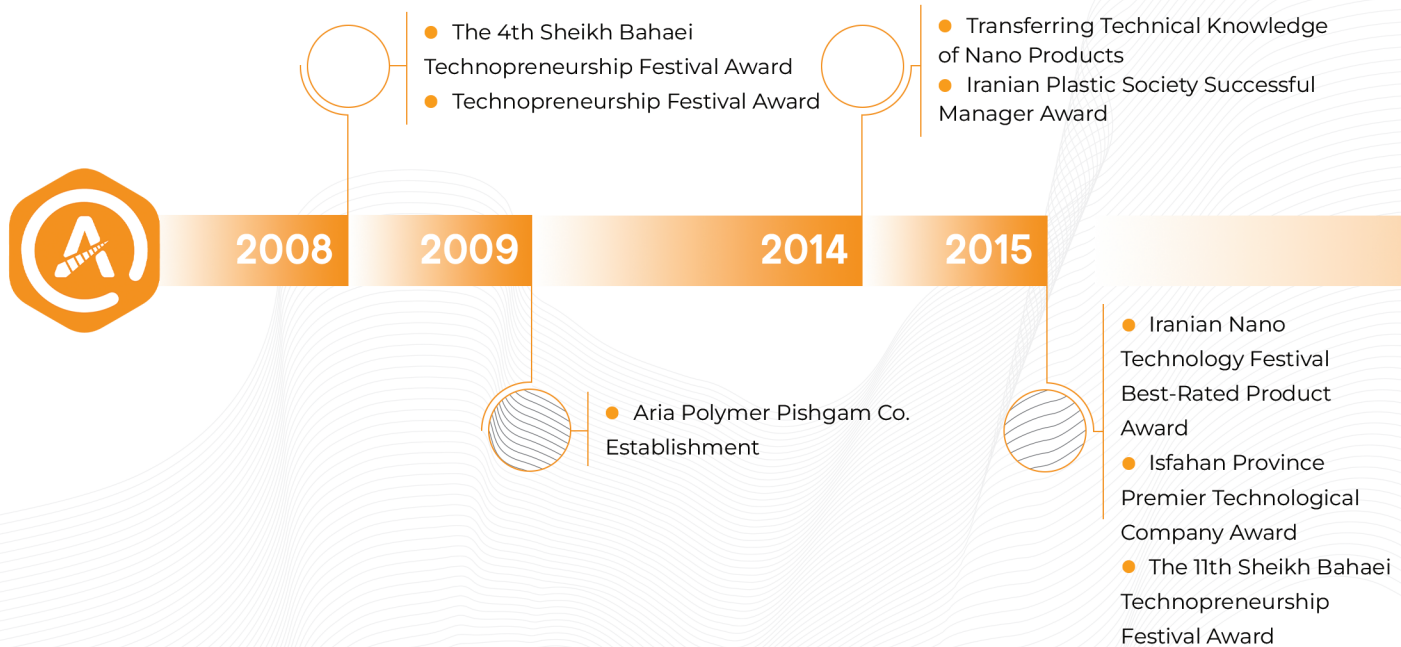
Automotive Compounds and Parts, Pipes, Packaging, Building and Civil Constructions, Medical Tools;
and Consumer Goods.

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



2016



- Asian Science Park Association Grand Prize

2021



- Isfahan Province's Knowledge-Based Award
- Selected Exporter of Iran Polymer Industry

2022



- Selected Exporter of Iran Polymer Industry
- Excellence Award of Iran Polymer Industry

2030

70% Share of
Innovative Products
in Gross Sales

ADDITIVE MASTERBATCH

9	Aria Add 2176	Anti-UV Masterbatch
10	Aria Add 2273	Anti-UV Masterbatch
11	Aria Add 2413	White Masterbatch
12	Aria Add 2415	White Masterbatch
13	Aria Add 2130	Antioxidant Masterbatch
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15	Aria Add 2445	MFI Modifier Masterbatch
16	Aria Add 2440T136	MFI Modifier Masterbatch
17	Aria Add 2451	Dimensional Stabilizer Masterbatch





Aria Add 2161
Optical Brightener
Masterbatch

Additive Masterbatch

ARIA ADD

ARIA ADD is a category of concentrated mixture of additives dispersed in a carrier resin, designed to impart specific properties or functionalities to plastic products. These additives are incorporated during the manufacturing process to enhance the plastic's performance, durability, or appearance. Essentially, it's a convenient way to introduce desired characteristics into plastics without directly handling and dispersing the often difficult-to-process additives. **ARIA ADD** products are widely used in every typical plastic process, such as injection molding, blow molding and extrusion molding.

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

• Technical Specifications

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 polypropylene-based 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



• Technical Specifications

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%	

White Masterbatch **Aria Add 2413**

• Description

Aria Add 2413 is a white masterbatch containing finely dispersed white pigment and polyolefin carrier resin, which provides optimum opacity for Raffia bags

• Product Application

White Masterbatch for Raffia Bags

• Advantages

- Easily processable
- Suitable for food packaging
- Excellent whiteness & dispersion
- Chemical stability, permanence, and high coloring ability



• Technical Specifications

Properties	Value	Method
Appearance	White Granules	-
White Pigment	70±2%	ASTM D4218
Density	1.9±0.1 g/cm ³	ASTM D792
Melt Flow Index @190°C/2.16kg	3.5±1 g/10min	ASTM D1238
Moisture	Max 0.2%	ASTM D644
Usage Level	According to condition and requirements	

White Masterbatch **Aria Add 2415**

• Description

Aria Add 2415 is a white masterbatch containing finely dispersed white pigment and polyolefin carrier resin, which provides optimum opacity for Raffia bags

• Product Application

White Masterbatch for Raffia Bags

• Advantages

- Easily processable
- Excellent whiteness & dispersion
- Chemical stability, permanence, and high coloring ability



• Technical Specifications

Properties	Value	Method
Appearance	White Granules	
White Pigment	70±2%	ASTM D4218
Density	1.8±0.1 g/cm ³	ASTM D792
Melt Flow Index @190°C/2.16kg	4±1 g/10min	ASTM D1238
Moisture	Max 0.2%	ASTM D644
Usage Level	According to condition and requirements	

Antioxidant Masterbatch

Aria Add 2130

• Description

Aria Add 2130 is an antioxidant masterbatch based on PE for the thermal stabilization of various polymers. This concentrate is containing a mixture of primary and secondary antioxidants

• Product Application

Antioxidant for general purpose applications

• Advantages

- Improve melt flow control
- Lower initial color and outstanding color maintenance
- Improved compatibility of additive with matrix
- Avoid oxidative degradation in higher temperatures



• Technical Specifications

Properties	Value	Method
Appearance	Milky Granules	-
Active Ingredients	>10%	-
Carrier Resin	HDPE	-
Density	0.94±0.02 g/cm ³	ASTM D792
Melt Flow Index @190°C/2.16kg	7±3 g/10min	ASTM D1238
Usage Level	1-3%	

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/cm ³	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



• Technical Specifications

Properties	Value	Method
Appearance	White Granules	-
Carrier Resin	PP	-
Density	0.9±0.01 g/cm ³	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/cm ³	ASTM D792
Melt Flow Index @190°C/2.16kg	≥100 g/10min	ASTM D1238
Usage Level	1-10%	-

Dimensional Stabilizer Masterbatch

Aria Add 2451

• Description

Aria Add 2451 is a special additive package containing nanoparticles and carriers.

It has been primarily designed to act as a dimensional stabilizer and PP clarifier

• Product Application

Dimensional stabilizer and PP clarifier

• Advantages

- Dimensional stabilizer in PP bag, fibers, and PP packaging, especially PP woven bags
- PP clarifier in PP injection parts



• Technical Specifications

Properties	Value	Method
Appearance	Glassy Granules	-
Carrier Resin	PP	-
Density	0.92±0.01 g/cm ³	ASTM D792
Melt Flow Index @190°C/2.16kg	10±2 g/10min	ASTM D1238
Usage Level	1-4%	-



- Notes

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