

# **NEXT LEVEL ZIPPERS**

## **BECAUSE EVERY BAG IS WORTH IT**



## INTRODUCTION

### WHO WE ARE ?

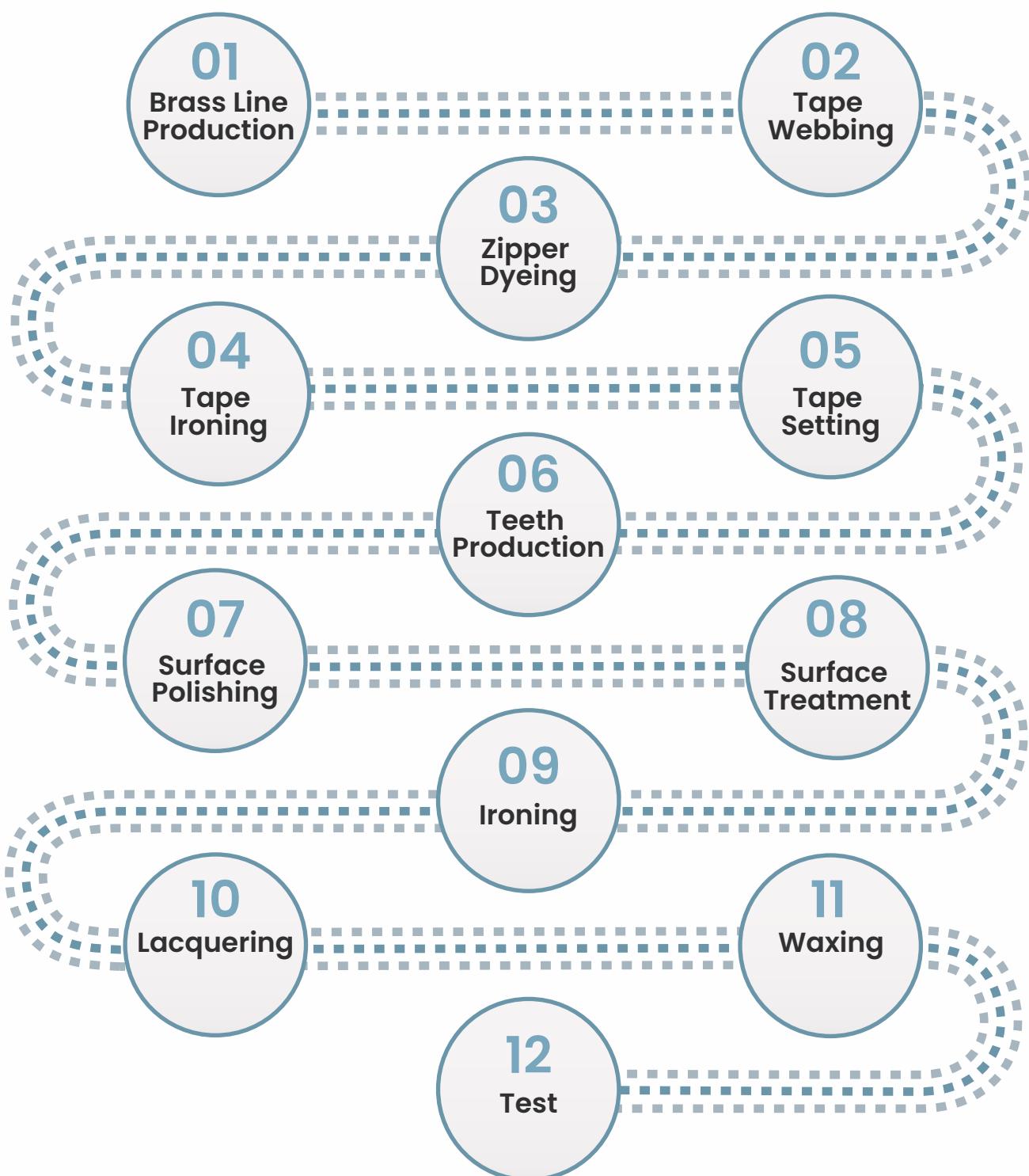
YRX is founded in 1999 and since then become a professional zipper manufacturing company specializing in bags and luggages with two production locations in Guangdong, China and employs 280 people. The covered surface of all the locations is more than 40,000 square meters and in 2015 the turnover was over 20 million; the output was approximately 13 millions meters of zips and 43 millions pieces of sliders. Our mission is to give best possible experience to the end user and add value to the products where our zipper are used on.

We have put great effort in research and development with core focus to achieve perfect balance between smooth sliding and strength, while to be non-oxidating and nickel free is the baseline. Roughly five percent of the turnover is spent for research and development of new products and machineries.

We provide zipper in a vast range of styles, colors and materials, customized to your exact specifications and color request. Though we are not a large company, we are professional, reliable, and we embody the family values of integrity and service and we expertise with attentiveness. Nowadays YRX is able to serve its customers all over the world, keeping quality and service on a higher level.

## PRODUCTION & TECHNOLOGY

### CHAIN ZIPPER PRODUCTION PROCESS



## PRODUCTION & TECHNOLOGY

### SLIDER PRODUCTION FLOW

01

Mould Design  
& tooling

02

Die Casting

03

Removing  
inside burrs

04

Surface  
Polishing

05

Slider Plating



### FINISHED ZIPPER

01

Zipper  
Length & Teeth  
Removing

02

Teeth  
Adjustment

03

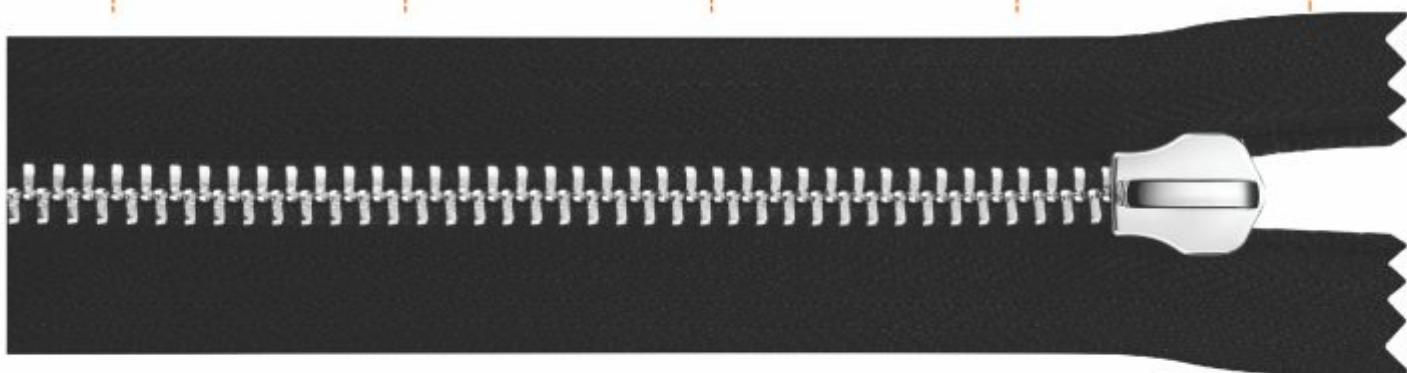
Bottom  
Stopper  
Assembly

04

Slider  
Assembly

05

Top Stopper  
Assembly



## QUALITY CONTROL



- Tape specification checked
- Teeth Check
- Teeth Specification check
- Zipper Strength Test
- Color Matching
- Reciprocating Test
- Salt Spray Test

- Slider Strength Test
- Zipper Color Fastness Test
- Material Check
- Chain Zipper QC
- Zipper Teeth Analysis
- Slider Specification Check
- Zipper Length Check

Ageing Test

## SOLUTION PROVIDER

CLIENTS' CHALLENGE	YRX's SOLUTIONS
Increased need of quality-corrosion of metal part	<p>Development of lacquer and machine to give full and durable protection</p> <ul style="list-style-type: none"> <li>• Salt Spray Test</li> <li>• Heat Humidity Test with Leather</li> <li>• Synthetic Sweat Test</li> <li>• Fast Acid Test (YRX's internal Test)</li> </ul>
Increased need of quality-zipper not durable or not smooth in sliding or annoying sound of sliding.	<ul style="list-style-type: none"> <li>• Digital Manufacturing and Automated Manufacturing :</li> <li>• Every dimension of a zipper and slider is subject to scrutiny that asserts all values fall in an acceptable range</li> <li>• Lateral Strength Test</li> <li>• Single Element Pull -off Test</li> <li>• Reciprocation Test</li> </ul>
Increased need of quality-zipper and slider finish not match with hardware.	<p>Customize to clients' exact finish request and provide full test on new finish and advise the finish with stable performance. Full test on new finish and advise the finish with stable performance.</p>
Increased need of quality-more tape color choice to match with leather or fabric	<ul style="list-style-type: none"> <li>• Dye to match with leather/ Fabric/YRX color Book/ Pantone</li> <li>• Datacolor Dispensing System</li> <li>• Lab Dyeing</li> <li>• Spectrophotometer</li> </ul>

## SOLUTION PROVIDER

CLIENTS' CHALLENGE	YRX's SOLUTIONS
Increased need to deal with costing pressure	We have different series metal zipper to meet clients' need.
Increased need of shorter lead time.	<ul style="list-style-type: none"><li>• One stop production from brass line production, zip tape knitting, dyeing, teeth assembly, polishing, teeth plating, lacquering.</li><li>• Increasing Automation and large capacity.</li></ul>
Increased need on Social Responsibility.	<ul style="list-style-type: none"><li>• PET Recycled Tape Zipper Series</li><li>• Zero discharge in plating process</li></ul>

## COMPARISON BETWEEN MAM AND CLIENT'S STANDARD

	Result for #5 Advanced (Average)	Client's Standard
Lateral Strength (BS EN 3084)	 750N <div style="width: 750px; background-color: #C00000; position: relative; height: 10px;"> <span style="width: 100%; position: absolute; left: 0; top: 0; background-color: inherit;"></span> </div>	 250N <div style="width: 250px; background-color: #333; position: relative; height: 10px;"> <span style="width: 100%; position: absolute; left: 0; top: 0; background-color: inherit;"></span> </div>
Reciprocation Test (BS EN 3084)	 Satisfactory after 2000 cycles	 500 Cycles

	Result for #8 Advanced (Average)	Client's Standard
Lateral Strength (BS EN 3084)	 830N <div style="width: 830px; background-color: #C00000; position: relative; height: 10px;"> <span style="width: 100%; position: absolute; left: 0; top: 0; background-color: inherit;"></span> </div>	 470N <div style="width: 470px; background-color: #333; position: relative; height: 10px;"> <span style="width: 100%; position: absolute; left: 0; top: 0; background-color: inherit;"></span> </div>
Reciprocation Test (BS EN 3084)	 Satisfactory after 2000 cycles	 500 Cycles

	Result for #5 Diamond (Average)	Client's Standard
Lateral Strength (BS EN 3084)	 750N <div style="width: 750px; background-color: #C00000; position: relative; height: 10px;"> <span style="width: 100%; position: absolute; left: 0; top: 0; background-color: inherit;"></span> </div>	 250N <div style="width: 250px; background-color: #333; position: relative; height: 10px;"> <span style="width: 100%; position: absolute; left: 0; top: 0; background-color: inherit;"></span> </div>
Reciprocation Test (BS EN 3084)	 Satisfactory after 2000 cycles	 500 Cycles

	Result for #8 Diamond (Average)	Client's Standard
Lateral Strength (BS EN 3084)	 830N <div style="width: 830px; background-color: #C00000; position: relative; height: 10px;"> <span style="width: 100%; position: absolute; left: 0; top: 0; background-color: inherit;"></span> </div>	 470N <div style="width: 470px; background-color: #333; position: relative; height: 10px;"> <span style="width: 100%; position: absolute; left: 0; top: 0; background-color: inherit;"></span> </div>
Reciprocation Test (BS EN 3084)	 Satisfactory after 2000 cycles	 500 Cycles

# ADVANCED SERIES



## ADVANCED SERIES

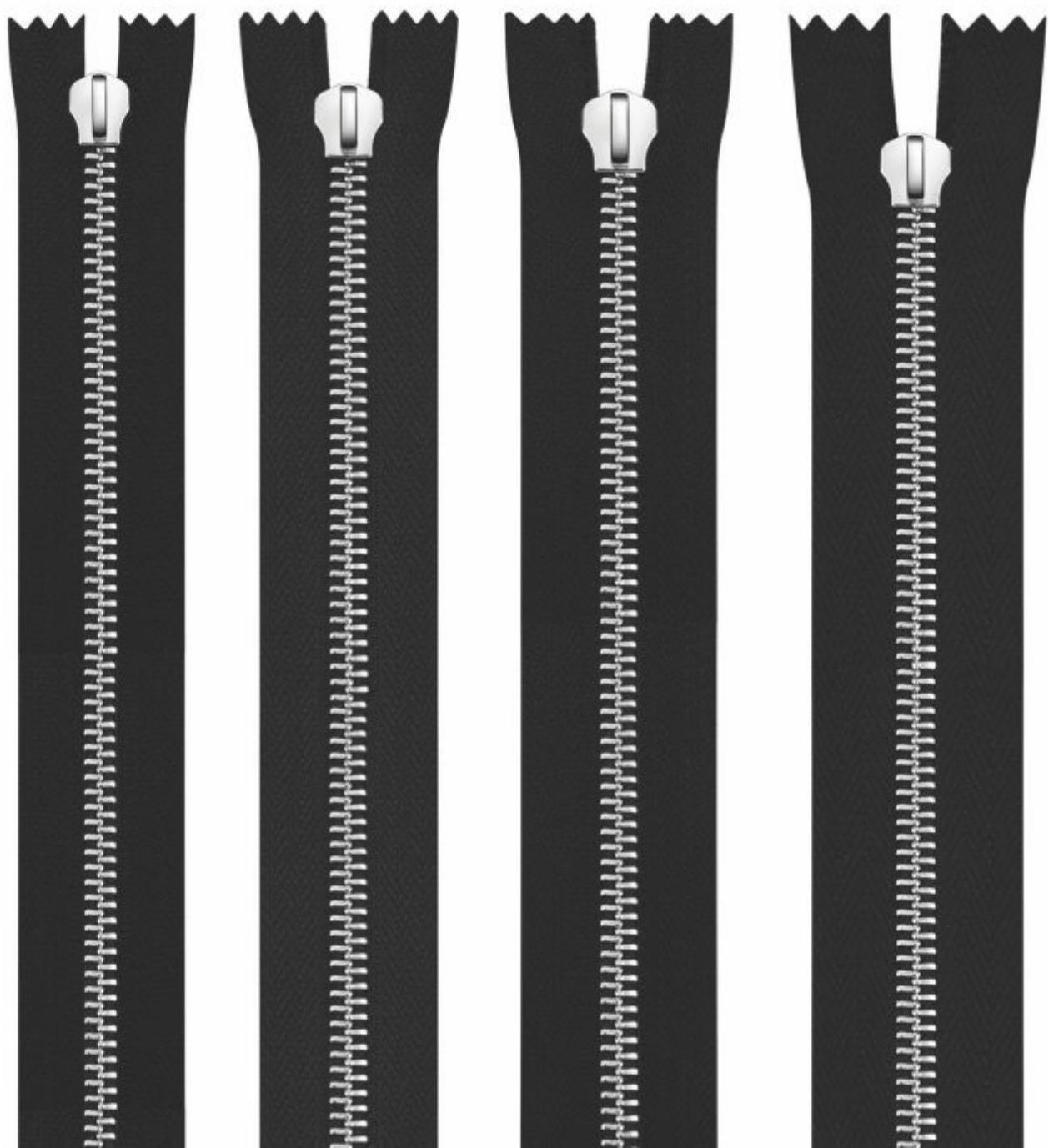
A modern choice available in size #3, #5, #8 and #10 with over 18 chain finish, advanced series is easy, practical and elegant. It has excellent performance by integrating metal zippers' typicality, new technology and great smoothness.

#3

#5

#8

#10



# ADVANCED SERIES

## A. COMPOSITION

Zipper Tape	100 % POLYESTER
Zipper Teeth	Brass
Slider	ZINC ALLOY

## B. TEST PERFORMANCE

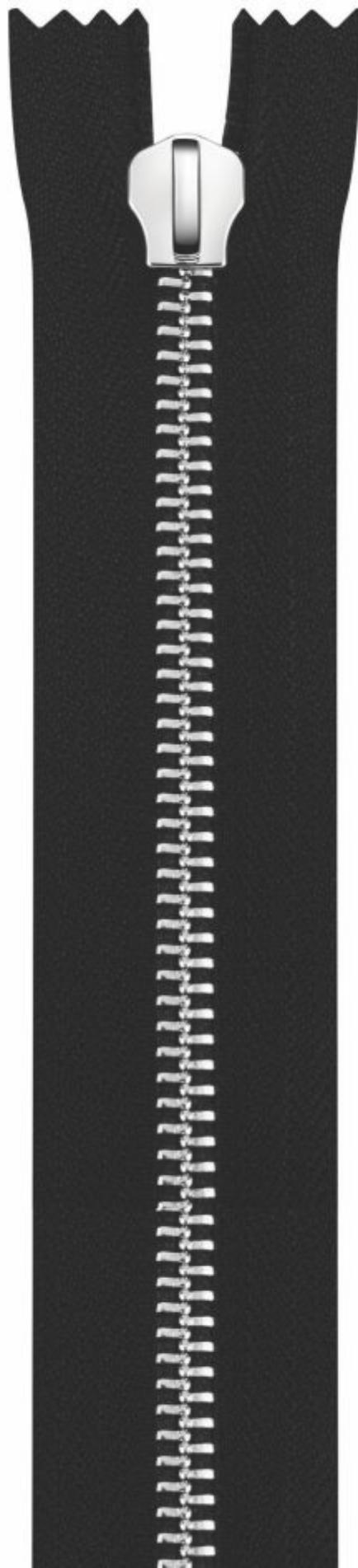
### 1. Metallic Coatings Corrosion Test Performance

Salt Spray Test 48HR ISO 9227:2017	PASS
Ageing Test 48HR [In House Method]	PASS
Damp Heat Test (Water Spray and Salt Mist) with leather ISO 4611:2010 96HR	PASS

### 2. Strength Test Performance

Test Item	Test Result	BS EN 3084 Standard
Lateral Strength	650N	250N
Reciprocation Test	Satisfactory after 2500 cycles	500 Cycles
Lateral Strength	750N	470N
Reciprocation Test	Satisfactory after 2500 cycles	500 Cycles

## C. COMPLIANCE



# DIAMOND SERIES



## DIAMOND SERIES

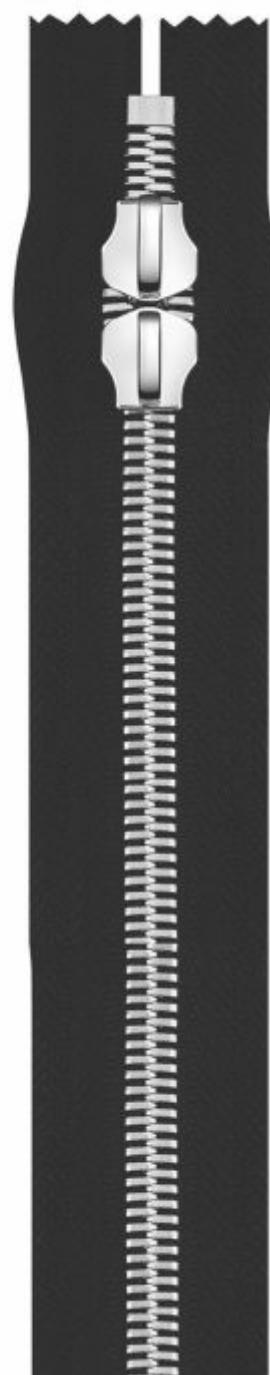
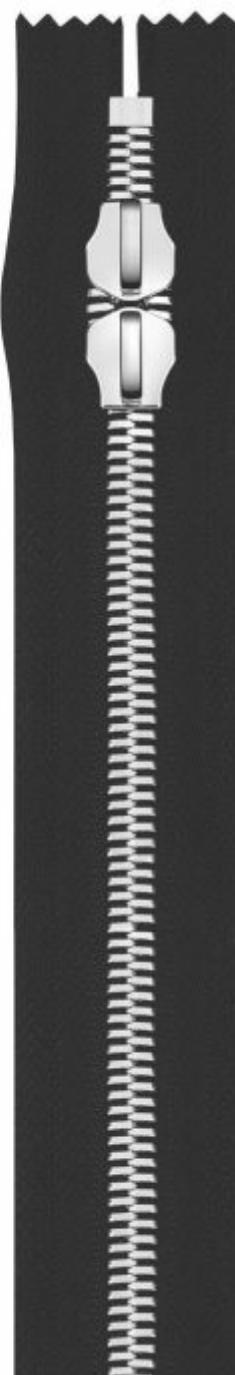
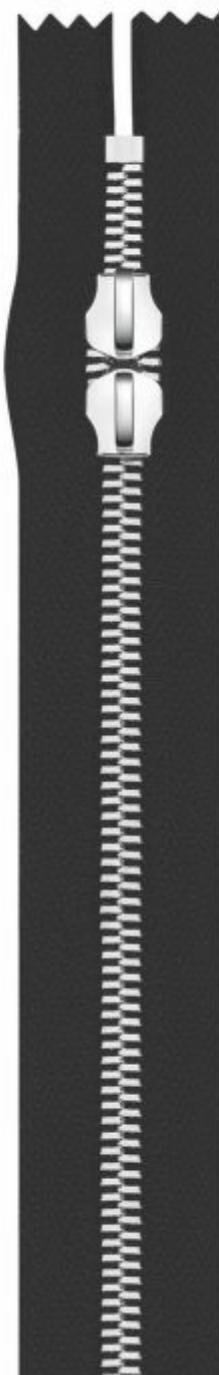
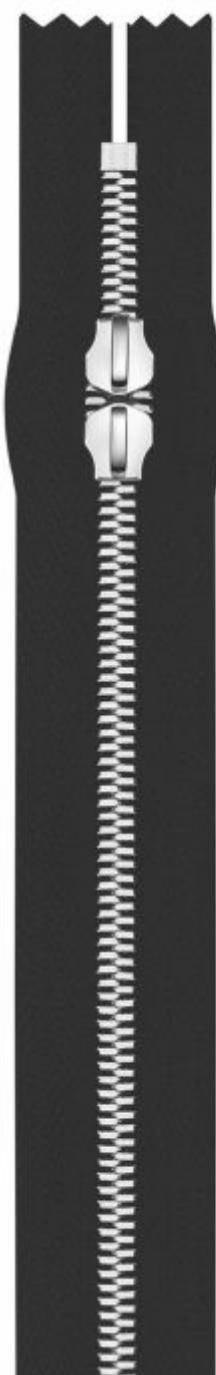
Available in size #3, #5, #8 and #10 Diamond Series is the result of the our long experience and passion in zippers making, aimed at the excellence in its business. The careful choice of materials, the high quality of the finishings, the unparalleled smoothness satisfying both the look and the touch, make Diamond Series a must for high quality bags.

#3

#5

#8

#10



# DIAMOND SERIES

## A. COMPOSITION

Zipper Tape	100 % POLYESTER
Zipper Teeth	Brass
Slider	ZINC ALLOY

## B. TEST PERFORMANCE

### 1. Metallic Coatings Corrosion Test Performance

Salt Spray Test 48HR ISO 9227:2017	PASS
Ageing Test 48HR [In House Method]	PASS
Damp Heat Test (Water Spray and Salt Mist) with leather ISO 4611:2010 96HR	PASS

### 2. Strength Test Performance

Test Item	Test Result	BS EN 3084 Standard
Lateral Strength	650N	250N
Reciprocation Test	Satisfactory after 2500 cycles	500 Cycles
Lateral Strength	750N	470N
Reciprocation Test	Satisfactory after 2500 cycles	500 Cycles

## C. COMPLIANCE



# SWISS SERIES

## SWISS SERIES

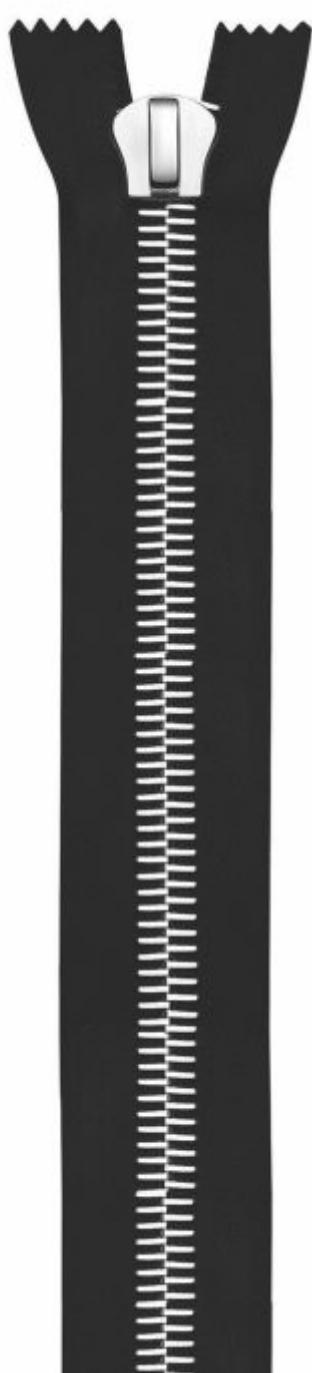
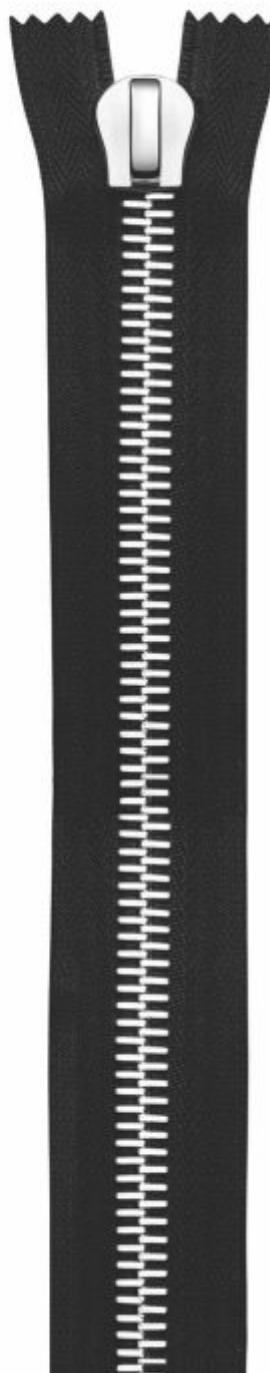
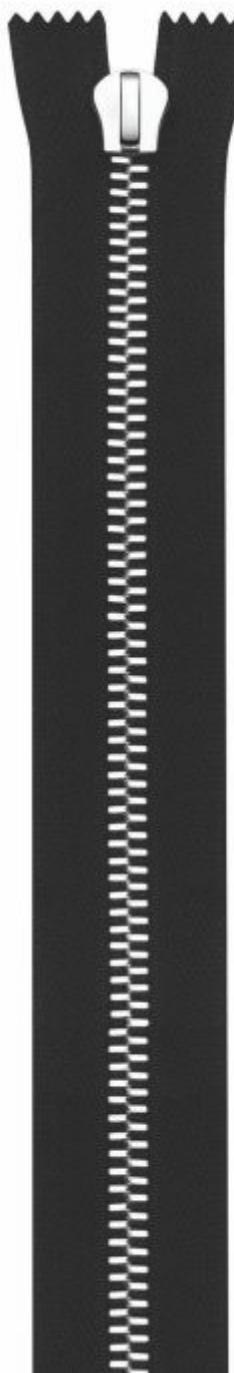
Available in size #3, #5, #8, #10, #12, 15# and #18, Swiss-Series is ideal for luxury bags and small leather goods that simply need the finest.

#3

#5

#8

#10



# SWISS SERIES

## A. COMPOSITION

Zipper Tape	100 % POLYESTER
Zipper Teeth	Brass
Slider	ZINC ALLOY

## B. TEST PERFORMANCE

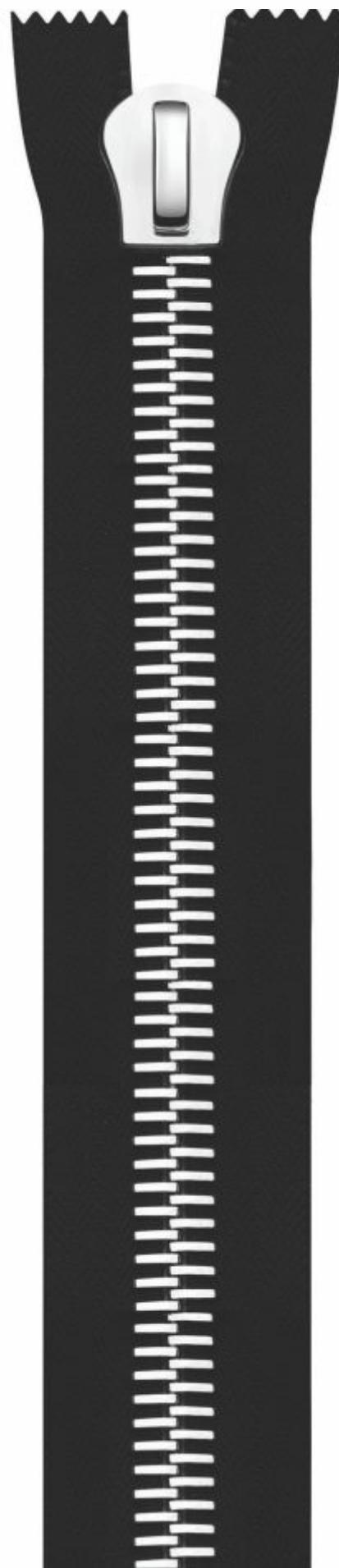
### 1. Metallic Coatings Corrosion Test Performance

Salt Spray Test 48HR ISO 9227:2017	PASS
Ageing Test 48HR [In House Method]	PASS
Damp Heat Test (Water Spray and Salt Mist) with leather ISO 4611:2010 96HR	PASS

### 2. Strength Test Performance

Test Item	Test Result	BS EN 3084 Standard
Lateral Strength	650N	250N
Reciprocation Test	Satisfactory after 2500 cycles	500 Cycles
Lateral Strength	750N	470N
Reciprocation Test	Satisfactory after 2500 cycles	500 Cycles

## C. COMPLIANCE



# EXCELSIA SERIES

## EXCELSIA SERIES

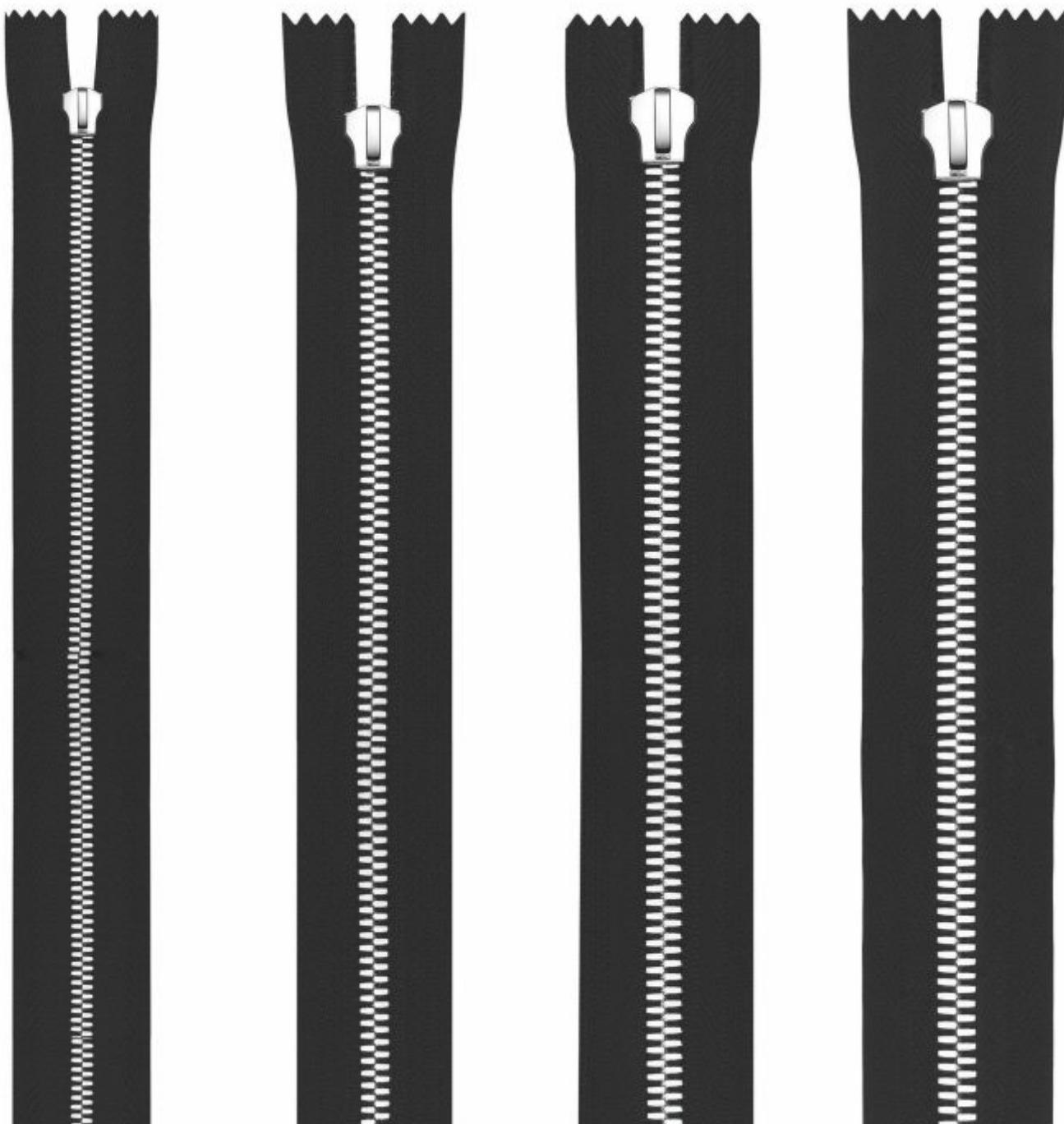
Available in size #3, #5, #8, and #10, the Excelsia Series metal zipper is simply excellent with polished and galvanized teeth for a luxury effect which harmonizes resistance and elegance.

#3

#5

#8

#10



# EXCELSIA SERIES

## A. COMPOSITION

Zipper Tape	100 % POLYESTER
Zipper Teeth	Brass
Slider	ZINC ALLOY

## B. TEST PERFORMANCE

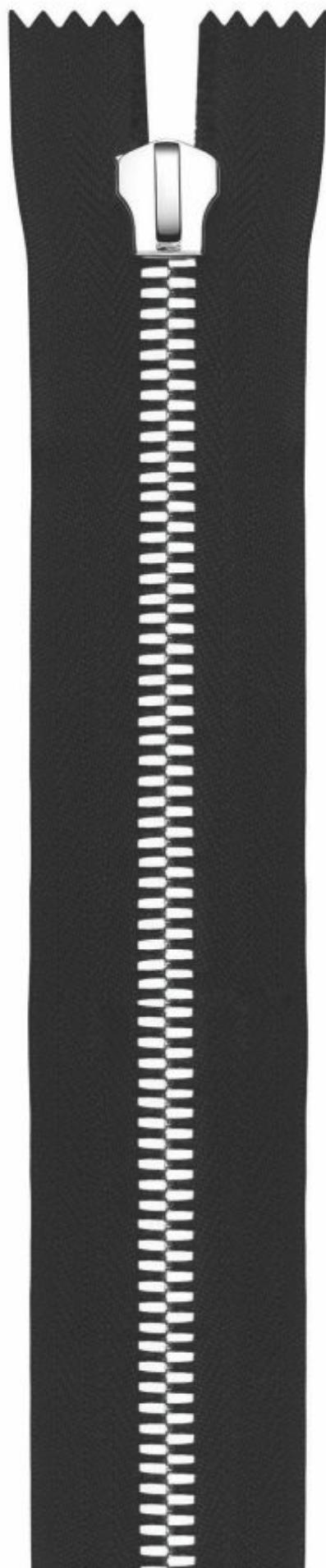
### 1. Metallic Coatings Corrosion Test Performance

Salt Spray Test 48HR ISO 9227:2017	PASS
Ageing Test 48HR [In House Method]	PASS
Damp Heat Test (Water Spray and Salt Mist) with leather ISO 4611:2010 96HR	PASS

### 2. Strength Test Performance

Test Item	Test Result	BS EN 3084 Standard
Lateral Strength	650N	250N
Reciprocation Test	Satisfactory after 2500 cycles	500 Cycles
Lateral Strength	750N	470N
Reciprocation Test	Satisfactory after 2500 cycles	500 Cycles

## C. COMPLIANCE



# NYLON SERIES

## NYLON SERIES

Available in size #3, #4.5, #5, #5.5, #7, #8 and 10, our nylon zipper has many variants and is able to offer customization according to the customers' requests which makes every product looking unique and refined.

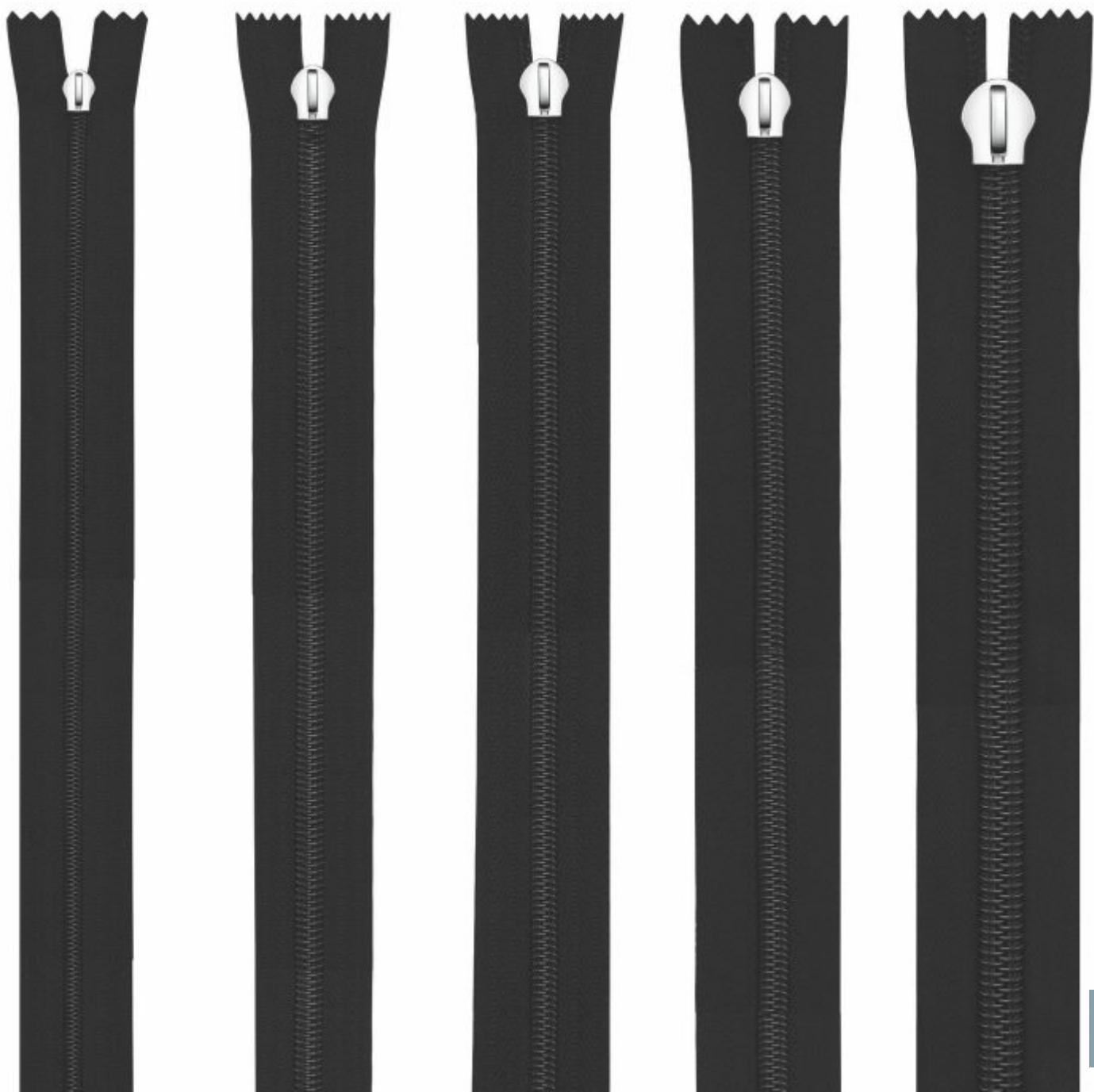
#3

#4.5

#5

#5.5

#7



# NYLON SERIES

## A. COMPOSITION

Zipper	100 % POLYESTER
Zipper Teeth	Coil monofilaments
Slider	ZINC ALLOY

## B. TEST PERFORMANCE

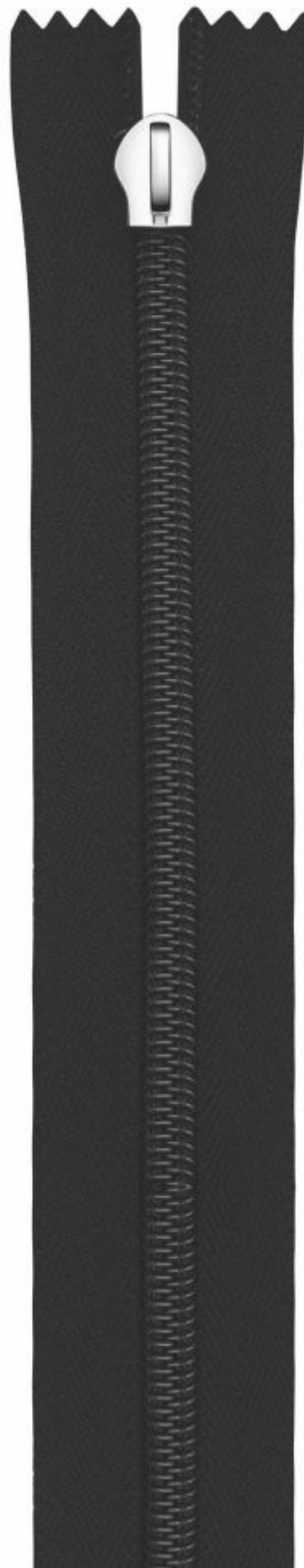
### 1. Metallic Coatings Corrosion Test Performance

Salt Spray Test 48HR ISO 9227:2017	PASS
Ageing Test 48HR [In House Method]	PASS
Damp Heat Test (Water Spray and Salt Mist) with leather ISO 4611:2010 96HR	PASS

### 2. Strength Test Performance

Test Item	Test Result	BS EN 3084 Standard
Lateral Strength	<b>850N</b>	250N
Reciprocation Test	<b>Satisfactory after 5000 cycles</b>	500 Cycles
Lateral Strength	<b>930N</b>	470N
Reciprocation Test	<b>Satisfactory after 5000 cycles</b>	500 Cycles

## C. COMPLIANCE



# PLASTIC SERIES

## PLASTIC SERIES

Available in size #3, #5, #8 and #10, our plastic zipper has rich element color variations by formulating the color pigment during the injection process. Now metallic finish is also available on plastic zipper to give clients more choice.

#3



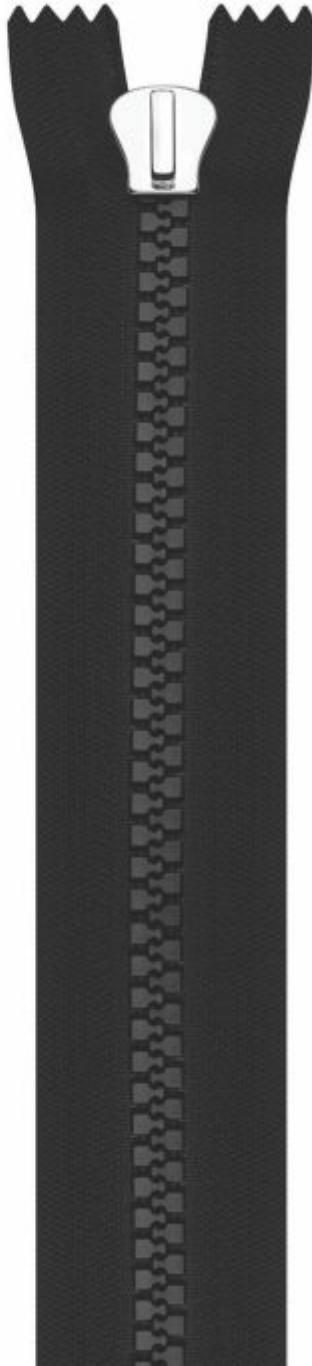
#5



#8



#10



# PLASTIC SERIES

## A. COMPOSITION

Zipper	100 % POLYESTER
Zipper Teeth	Polyoxymethylene (POM)
Slider	ZINC ALLOY

## B. TEST PERFORMANCE

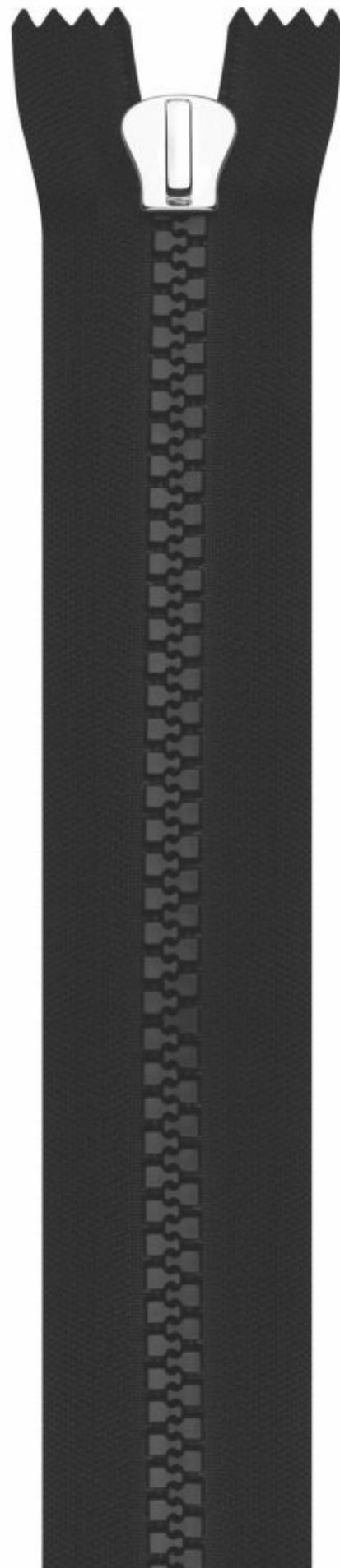
### 1. Metallic Coatings Corrosion Test Performance

Salt Spray Test 48HR ISO 9227:2017	PASS
Ageing Test 48HR [In House Method]	PASS
Damp Heat Test (Water Spray and Salt Mist) with leather ISO 4611:2010 96HR	PASS

### 2. Strength Test Performance

Test Item	Test Result	BS EN 3084 Standard
Lateral Strength	<b>450N</b>	250N
Reciprocation Test	<b>Satisfactory after 5000 cycles</b>	500 Cycles
Lateral Strength	<b>660N</b>	470N
Reciprocation Test	<b>Satisfactory after 5000 cycles</b>	500 Cycles

## C. COMPLIANCE



## WATER REPELLENT ZIPPER

## WATER REPELLENT ZIPPER

Available for metal zipper, coil zipper and plastic zipper, our water repellent zipper helps to enrich the design of bags and luggage.



# WATER REPELLENT ZIPPER

## A. COMPOSITION

Zipper	100 % POLYESTER
Zipper Teeth	Coil monofilaments
Slider	ZINC ALLOY

## B. TEST PERFORMANCE

### 1. Metallic Coatings Corrosion Test Performance

Salt Spray Test 48HR ISO 9227:2017	PASS
Ageing Test 48HR [In House Method]	PASS
Damp Heat Test (Water Spray and Salt Mist) with leather ISO 4611:2010 96HR	PASS

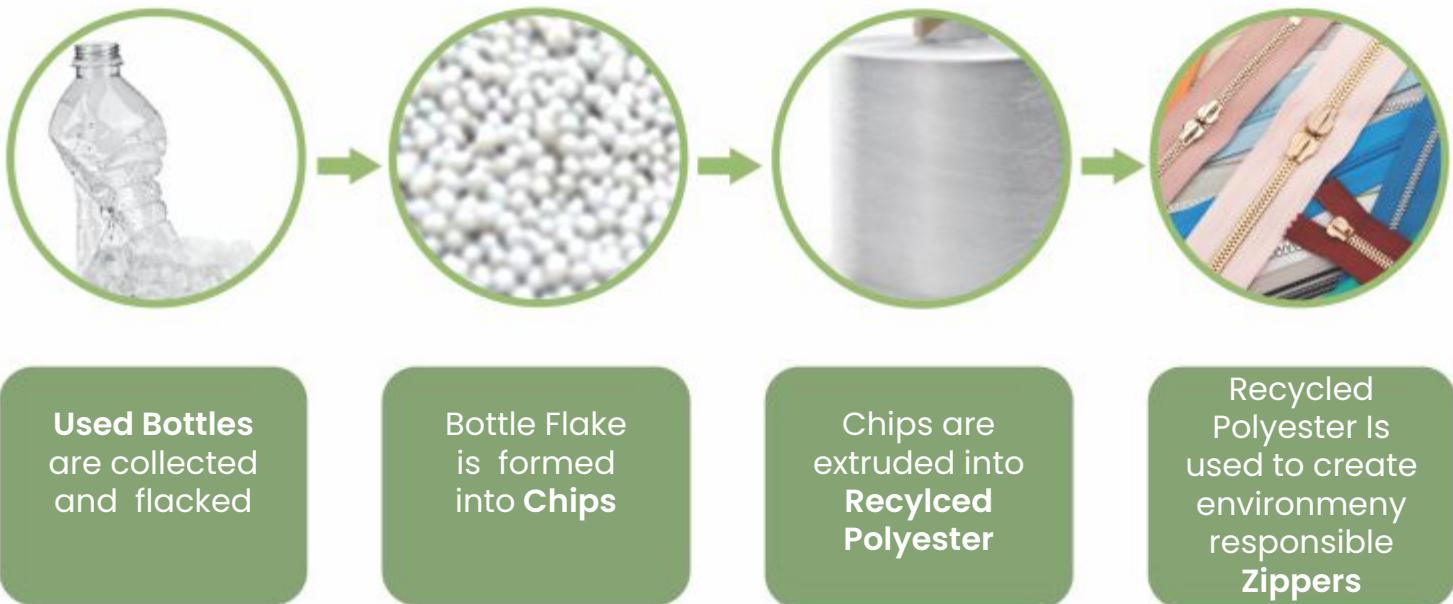
### 2. Strength Test Performance

Test Item	Test Result	BS EN 3084 Standard
Lateral Strength	850N	250N
Reciprocation Test	Satisfactory after 5000 cycles	500 Cycles
Lateral Strength	930N	470N
Reciprocation Test	Satisfactory after 5000 cycles	500 Cycles

## C. COMPLIANCE



# MAM YRX Green Series Zipper



YRX cares about the environment and is committed to reduce environmental footprint without compromising quality and therefore has created line of sustainable zipper YRX Green Series which is available in nylon zipper, plastic zipper and metal zipper since 2017 using recycled polyester made from post-consumer plastic bottles for eco-conscious clients.

## Green Series Zipper, Green Planet

One plastic bottle of 500ML could be made to 1-3Y YRX Green Series zipper.



# GREEN ADVANCED SERIES

## A. BRIEF

A modern choice available in size 3, 5, 8 advanced Series is practical and elegant with more competitive price. #5 is available in two way which achieves balance between strength and sliding, overcoming the limitation of element shape. Now available in Green Series to give clients more choice.

## B. TEST PERFORMANCE

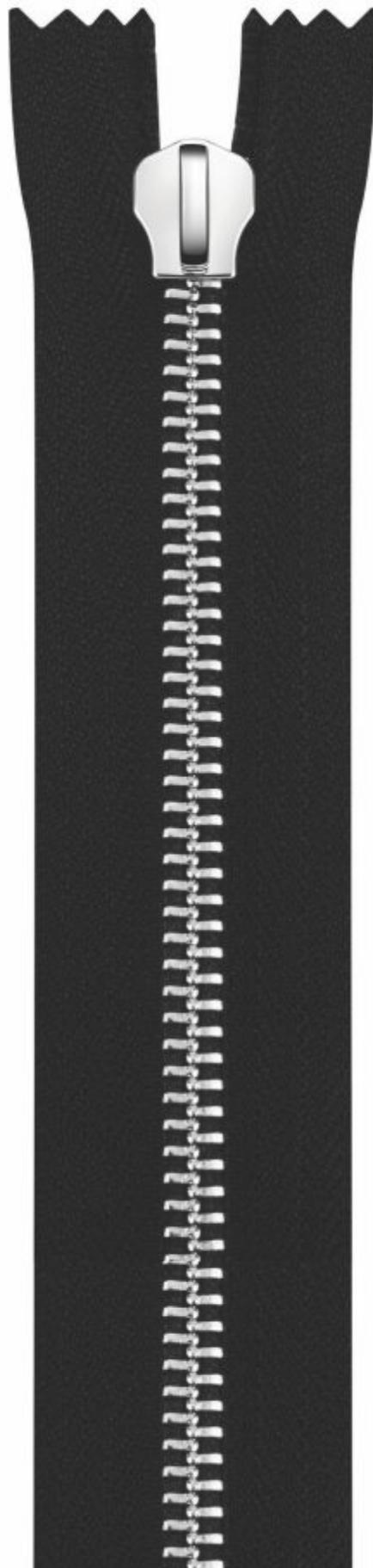
### 1. Metallic Coatings Corrosion Test Performance

Humidity Resistance Test [Samsonite Method]	PASS
Ageing Test 48HR [In House Method]	PASS

### 2. Strength Test Performance

	TEST ITEM	TEST RESULT
#3 Advanced	Lateral Strength	650N
	Reciprocation Test	Satisfactory after 2000 cycles
#5 Advanced	Lateral Strength	450N
	Reciprocation Test	Satisfactory after 2000 cycles

## C. COMPLIANCE



# GREEN NYLON SERIES

## A. BRIEF

As the most popular zipper among the three types of zippers, this versatile zipper can be used in anything. YRX has devoted years of R&D to focus on its application on luggage and handbag and makes our Nylon Series greatly more abrasion-resistant. Green Series now available in #3, #5, #7, #8, #10

## B. TEST PERFORMANCE

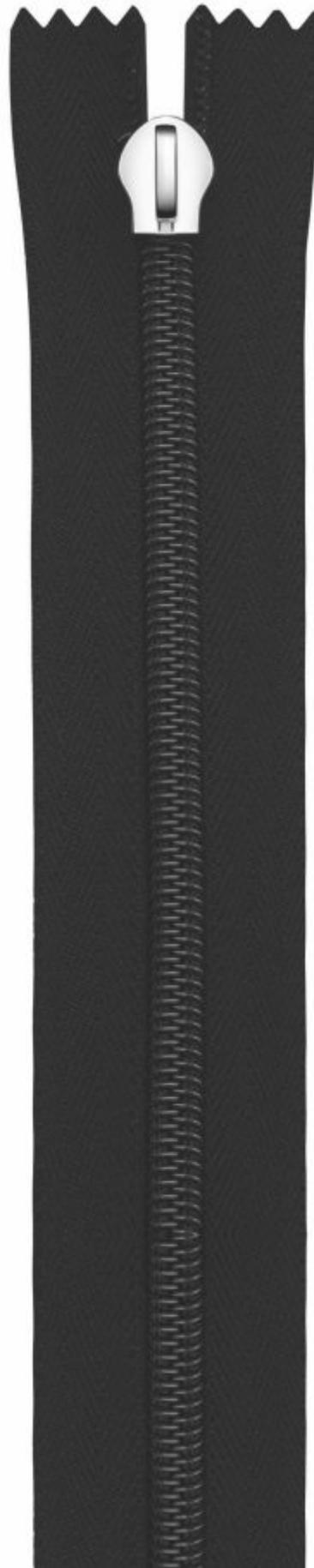
### 1. Metallic Coatings Corrosion Test Performance

Humidity Resistance Test [Samsonite Method]	PASS
Ageing Test 48HR [In House Method]	PASS

### 2. Strength Test Performance

TEST ITEM	TEST RESULT
#5, #7 NYLON	Lateral Strength
	750N
#8 NYLON	Reciprocation Test
	<b>Satisfactory after 5000 cycles</b>
#8 NYLON	Lateral Strength
	850N
#8 NYLON	Reciprocation Test
	<b>Satisfactory after 5000 cycles</b>

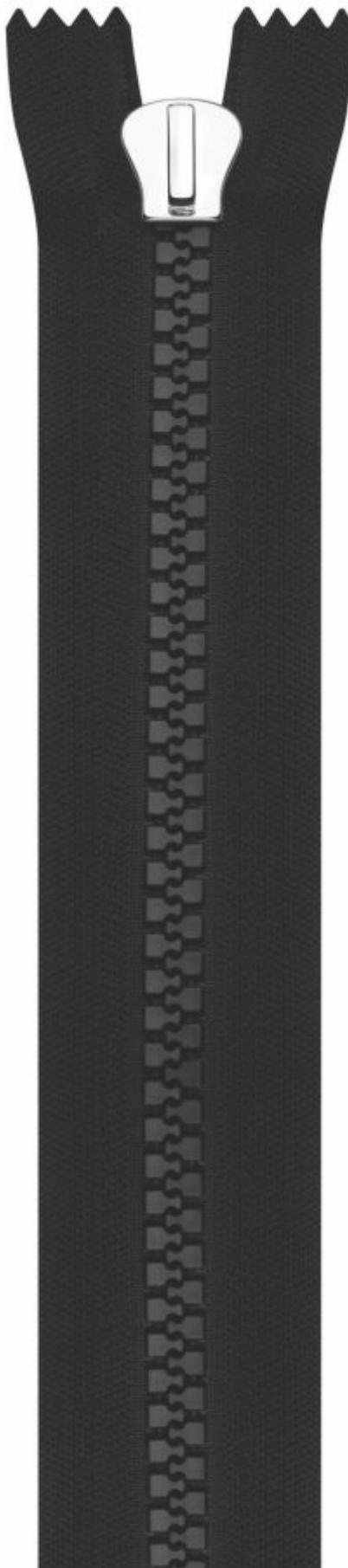
## C. COMPLIANCE



# GREEN PLASTIC SERIES

## A. BRIEF

Available in size 3, 5, 8 and 10, YRX Plastic Zipper has rich element color variations by formulating the color pigment during the injection process. Green Plastic Series now available in #3, #5, #8.



## B. TEST PERFORMANCE

### 1. Metallic Coatings Corrosion Test Performance

Humidity Resistance Test [Samsonite Method]	PASS
Ageing Test 48HR [In House Method]	PASS

### 2. Strength Test Performance

TEST ITEM	TEST RESULT
#5 NYLON	Lateral Strength
	400N
#8 NYLON	Reciprocation Test
	Satisfactory after 5000 cycles
#8 NYLON	Lateral Strength
	500N
#8 NYLON	Reciprocation Test
	Satisfactory after 5000 cycles

## C. COMPLIANCE





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### CHINA

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