



STC Test Report

Date: 2009-08-20

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No: HT196311

Applicant (BEP001)

: Bestko Precision Ltd.
Unit 3, 3/F., Block A, Po Lung Centre,
11 Wang Chiu Road, Kowloon Bay, Hong Kong.

Attn.: Gary Chan

Description of Sample(s)

: Three (3) groups of submitted sample each in 2 pieces
said to be
GLASS HINGES WITH LOADING CAPACITY OF 68KG
Style No.: (A) BK009-135
(B) BK021-180
(C) BK012-90
Country of Origin : China

Date sample(s) Received

: 2007-05-23

Date Tested

: 2007-05-23 to 2007-06-29

Investigation Requested

: Selected test(s) as detailed herein.

This Test Report supersedes our previous Test Report, HT174797 issued on 2007-06-20, which is hereby deemed null and void.


KWONG, Rock
Authorized Signatory
Textile and Materials Department
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.

SATRA Accredited Laboratory
International Safe Transit Association (ISTA) Certified Laboratory
Members of
Hong Kong Apparel Society Limited
Hong Kong Footwear Association

Approved Laboratory of The Woolmark Company
The Govmark Fire Laboratories Certified Laboratory

Hong Kong Association for Testing, Inspection and Certification Limited
Knitwear Innovation and Design Society (KIDS)

The Hong Kong Standards and Testing Centre Ltd.

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TEST RESULT(S):

1. Corrosion tests in artificial atmospheres - Salt spray test

In house method Ref. to ISO 9227:2006

Neutral salt spray test (NSS) – Three submitted samples were inspected visually before the test and then put into the salt spray chamber. After 24 hours of spraying, the samples were taken out and inspected visually.

- Scope : To assess the corrosion resistance of metallic materials with or without permanent corrosion protection or temporary corrosion protection.
- Type of test adopted : Neutral salt spray test (NSS) – Particularly use for detecting discontinuities such as pores and other defect in certain metallic, anodic oxide and conversion coatings.
- No. of specimens : One piece out of 1 piece of sample A, B and C were selected for test.
- NaCl solution : Concentration in 50 gram sodium chloride dissolve in a litre distilled water.
- pH value in chamber 25°C : 6.5 to 7.2
- Spraying : At an absolute pressure of 150 kPa
- Arrangement angel : At 15-30° from the vertical
- Test machine : Salt Spray Tester
- Chamber temperature : 35±2°C
- Test duration : 24 hours (As per client requirement)
- Volume of collected solution : 1-2ml per hour. The density is 1.0255-1.0400 at 25°C
- Test results : Observation was (were) shown in following table :

Sample	Rating	Type of deterioration
A (After 24 hours)	8	C/D*
B (After 24 hours)	9	C/D*
C (After 24 hours)	6	C/D*

Note: * Client did not provide sufficient information on the products.

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TEST RESULTS :

Appearance ratings :

Area of defects (%)	Rating
No defect	10
$0 < A \leq 0.1$	9
$0.1 < A \leq 0.25$	8
$0.25 < A \leq 0.5$	7
$0.5 < A \leq 1.0$	6
$1.0 < A \leq 2.5$	5
$2.5 < A \leq 5.0$	4
$5.0 < A \leq 10$	3
$10 < A \leq 25$	2
$25 < A \leq 50$	1
$50 < A$	0

Classification of type of coating deterioration:

- A – Staining and/or colour change due to deterioration of the coating
- B – Dulling with little or no visible corrosion of coating
- C – Corrosion products from anodic coatings
- D – Corrosion products from cathodic coatings
- E – Surface pitting
- F – Flaking, peeling, spalling
- G – Blistering
- H – Cracking
- I – Crazeing
- J – Crow's feet or star-shaped defects

- Note :
1. The above test does not specify the dimensions of test specimens, the exposure period to be used for a particular product, or the interpretation of result.
 2. Evaluation only focuses on appearance change after test and companies by a rating system modify from ISO 10289-Methods for corrosion testing of metallic and other inorganic coatings on metallic substrates – Rating of test specimens and manufactured articles subjected to corrosion tests.

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TEST RESULT(S):

2. Function and Endurance test

Method Used: In-house method

Test procedure: Turn the forepart of specimen at 180° and back to its original position for 380,000 cycles and visually inspect for any damage.

Sample	Observation
A	No visual damage and malfunction was found on tested sample.
B	No visual damage and malfunction was found on tested sample.
C	No visual damage and malfunction was found on tested sample.

***** End of Test Report *****

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