

1. Purpose

This Technical Specification shall be conclusive with regard to the herein defined, non-customer specific characteristics and quality of the Ribbon and the respective test procedure to prove conformity of the Ribbon with this Technical Specification. The tests are performed under the conditions and parameters as outlined and defined below by the Rebo Quality Control prior to delivery. All Ribbon characteristics and other criteria that are not defined in this Technical Specification are not subject to the Rebo Quality Control test procedure as described below and are valid only, if expressly set out in our written offer or otherwise confirmed by Rebo in writing. Insofar as such additional characteristics and other criteria may be relevant with regard to specific requirements and use of the customer, these need to be examined and tested by the customer himself under his sole responsibility prior, during and after the application process.

2. Ribbon

This Technical Specification shall apply to the following Ribbon:

Group of Ribbon: TTR

Ribbon identification: SR10

Ribbon design: All colors according to the current standard sales program. (except for white)

3. Rebo Quality Control Test Procedure and Approval Process

Prior to delivery each production batch is subject to the Rebo Quality Control test procedure and final approval process. To prove conformity of the above Ribbon with this Technical Specification Rebo carries out comparative printing tests in the Rebo Technical Laboratory using sample Ribbon of the current production batch (REBO PRODUCTION BATCH) and of the Internal Rebo Standard Reference Ribbon (REBO REFERENCE RIBBON).

3.1 These tests are carried out under the following conditions:

Printer: Zebra 90 XI

Print speed: 100 mm/sec

Energy settings:

Normal PELD T = 7

Low PELD T = 4

Print design: test label ST700

Substrate: Gubi Haftetiketten PE TOP white glossy

3.2 Subject to comparison tests are the REBO PRODUCTION BATCH and the REBO REFERENCE RIBBON applied to parts under the above defined test conditions (REBO TEST PART produced with the REBO PRODUCTION BATCH and REBO REFERENCE PART produced with the REBO REFERENCE RIBBON).

The defined criteria of comparison and evaluation are the following:

- WORKABILITY (3.2.1)
- VISUAL APPEARANCE (3.2.2)

3.2.1 With regard to **WORKABILITY** the following characteristics are tested and compared:

3.2.1.1 Print properties (normal settings)

Evaluation is made by monitoring and assessing the prints in respect to print definition and film wrinkling.

3.2.1.2 Start up issues (low settings)

Evaluation is made by monitoring and assessing the prints of letters, areas and barcodes in respect to intensity and definition.

3.2.2 With regard to **VISUAL APPEARANCE** the following characteristics are tested and compared in a distance of approx. 50 – 70 cm to the viewer's eye, using a color viewing booth:

Type: SpectraLight IIIP®P 65 B

Supplier: GretagMacbeth GmbH

Light source: Daylight D 65

3.2.2.1 Color (normal settings)

Evaluation is made by assessing the compliance of the color shade.

3.2.2.1 Gloss (normal settings)

Evaluation is made by assessing the compliance of the gloss.

3.3 Test Evaluation

Except as specifically otherwise provided, the evaluation of the tests shall be made by visual comparison of the REBO TEST PART with the REBO REFERENCE PART. Comparison shall be made with the naked eye without any technical means. The result of comparison must show compliance of the REBO TEST PART with the REBO REFERENCE PART.

4. Storage Conditions and Workability

Storage Time: 12 months from the date of invoice

Storage Temperature: 10 – 35 °C

Relative Humidity: 30% - 80%

Workability: 12 months from the date of delivery in compliance with the storage conditions.

No direct sun exposure, Ribbon must not be pressed.

5. Compliance with the Technical Specification

Rebo warrants that the Ribbon delivered to the customer shall be in compliance with the Technical Specification at the time of transfer of risk. Once the Transfer Process has been initiated by the customer, Rebo no longer has control over the conditions to which the Ribbon will be exposed (e. g. temperature,

environment, substrate, cleaning agents used). As a consequence, Rebo cannot be held liable for the Ribbon once the Transfer Process has commenced unless any defect in the Ribbon was in existence at the time of transfer of risk of the Ribbon. To prove that the Ribbon does not comply with the Technical Specification, the customer must inform Rebo of the batch number of the Ribbon delivered to the Customer. These numbers enable Rebo to trace the production conditions of the batch of the Ribbon in dispute delivered to the customer. Any evaluation of the tests must take into account the fact that variations within a certain range are inevitable in any industrial production process. Therefore any such variations, which may result in slight deviations of the application results between the REBO PRODUCTION BATCH and the REBO REFERENCE RIBBON, shall not be considered as non-compliance with the Ribbon quality as provided in this Technical Specification.

6. Issue

This Technical Specification supersedes all previous issues.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that Rebo believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use

Many factors beyond Rebo's control and uniquely within user's knowledge and control can affect the use and performance of a Rebo product in a particular application. Given the variety of factors that can affect the use and performance of a Rebo product, user is solely responsible for evaluating the Rebo product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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