

TESTING STRATEGY AND TEST METHOD INDEX



Geca-Tapes, B.V. ®

Z.I. de la Blanche Maison
BP109, Avenue des Nations Unies
59270 Bailleul, France

Main Phone: +333-28-43-74-58
Main Fax: +333-28-43-74-63
Main Email: info@geca-tapes.com
Website: www.geca-tapes.com

PURPOSE

The purpose of this document is to outline the testing strategy utilized by Geca Tapes, B.V. during routine and type testing of its yarn and tape products.

Also, this document provides an index of the international and internal test methods used by Geca Tapes. Customers are encouraged to use the same test methods to minimize measurement bias between the Geca Tapes factory measurements and the end users quality control labs.

SCOPE

This document applies to the following materials produced by Geca Tapes.

- ✓ *Semi-Conductive Water Blocking Tapes*
- ✓ *Non-Conductive Water Blocking Tapes*
- ✓ *Film Laminated Water Blocking Tapes*
- ✓ *Binding, Bedding and Barrier Tapes*
- ✓ *Woven Tapes*
- ✓ *Water-blocking Woven Tapes*
- ✓ *Foam Tapes*
- ✓ *Marine Tapes*
- ✓ *Water-blocking Yarns*
- ✓ *Water-blocking Flat Binders*

INTERNATIONAL STANDARDS

Wherever possible, Geca Tapes uses international standard for performing measurements on its products. International standard from the following standards bodies are in regular use at Geca Tapes:

- ✓ *IEC*
- ✓ *ISO*
- ✓ *ASTM*
- ✓ *DIN*
- ✓ *BIFSA*

INTERNAL TEST METHODS

Where an international standard is not available, Geca Tapes develops and refines an internal test method. These methods are part of the "GTEST" series.

All GTEST methods are designed for maximum accuracy, repeatability and simplicity. Geca Tapes will provide details of its GTEST methods to any customers wishing to exploit the many years of experience that Geca Tapes has with testing of yarns and tapes.

ROUTINE TESTS

Geca Tapes products are tested using the listed international standard and GTESTs for all routine Quality Control measurements. The sampling rates are chosen according to sound statistical practices and results are kept in the Geca Tapes Quality Control database.

TYPE TESTS

Geca Tapes has an ongoing research and development program to develop new products, as customer needs change. The listed international standards and GTESTs are also used in the development cycle so that material performance is measured using the same methods that will be applied after the material is qualified for production.

Type testing is also repeated on a regular basis and results are available for customer review upon request.

INDEX OF INTERNATIONAL STANDARDS

Following is an index of the international test methods used by Geca Tapes:

MEASUREMENT	INT'L STD
Tape Mass Per Unit Area	ISO-9073-1
Tape Thickness	ISO-9073-2
Tape Tensile Strength	ISO-9073-3
Tape Elongation	ISO-9073-3
Surface Resistance	IEC-167
Volume Resistance	DIN-54345
Yarn Mass Per Unit Length	ISO-2060
Yarn Tensile Strength	ISO-2062
Yarn Elongation	ISO-2062
Maximum Service Temp.	IEC-216

INDEX OF GTESTS

Following is an index of the internal GTEST methods used by Geca Tapes:

MEASUREMENT	INT'L STD
Maximum Processing Temp	GTEST-12
Tape Swelling Speed	GTEST-20
Tape Swelling Height	GTEST-20
Yarn Absorption Capacity	GTEST-22
Dry Diameter of Yarns	GTEST-23

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