

INDUSTRIAL TEXTILE MATERIALS

RELIABILITY ASSESSMENT



"Committed To Quality"

fitei FITI Testing &
Research Institute



Total Quality Solution Provider

Reliability assessment team offers reliability assessment and certification, accelerated life test, and life prediction services for minimizing future risks for producers and consumers by increasing the reliability of industrial textile materials.

Testing and Quality Assurance

Partner of the textile industry for testing and quality assurance of products according to ISO/IEC 17025 and ISO/IEC 17020.

Reliability Assessment and Certification

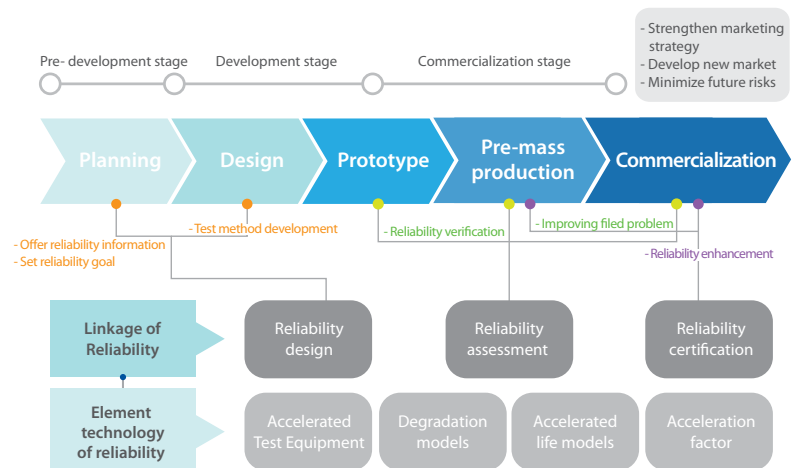
Development of reliability assessment standards

Issue of reliability certification (R-Mark) according to RS standards.

Development and Standardization of Accelerated Test Methods

Development of accelerated test methods for lifetime prediction of technical textiles.

Reliability Support Process



Testing Service for Various Items

We are diversifying our testing service and expanding our business in various areas such as geosynthetic, automotive textile, traffic safety facilities and convergence materials.



Geosynthetic

Geogrid, Geo strip, Geodrain, etc.



Automotive textile

seats, carpet, seat belt, etc.



Traffic Safety Facility

Delineator Post, Transparent Soundproof Panel, etc.



Technical textile

Marine rope, Aramid, Carbon fiber, etc.



Smart textile

High performance fiber, Health care fiber, etc.



Eco textile

Recycled, Biodegradable Yarn, etc.



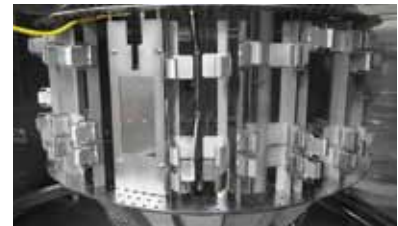
Testing Service

General Test

- Quality test : Tensile properties, weathering, chemical and biological degradation, shear strength, etc.

Accelerated Life Test

- Accelerated creep test (Stepped Isothermal Method using the time-temperature superposition)
- Failure analysis and lifetime prediction service (failure mechanism : photo-degradation, hydrolysis, oxidation, fatigue, etc)

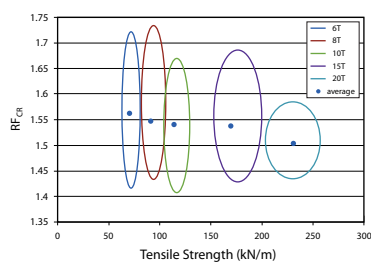


Reliability Certification

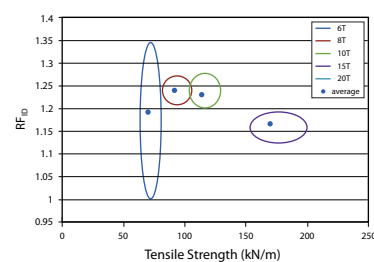
- Development of Reliability Standard (RS)
- Reliability certification (R mark) and Mutual certification (R mark – CE mark)

Technical Consulting

FITI's core service is not only testing, but also technical consulting with over 30 years' vast testing experience in the industrial materials. We provide our clients with analytical & perceptive comparative data reports.



Creep reduction factor at service lifetime 100years.



Installation damage reduction factor using the 20mm gravel.

Technical consulting report



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