Certification process and Future Applications of Sustainable Labeling

DOT DESIGN

About the SR Mark

Simplifying Sustainability Information for All

The three-stage certification process of the SR Mark starts with Declaration of Conformity by producers, making the sustainability information of products transparent and easy to understand. Through the supervision of professional teams, producers are assisted in developing sustainable products and applying for corresponding international sustainability certifications.

THE SUSTAINABLE CERTIFICATION PROCESS INVOLVES THREE STAGES:

Stage One

Producers use industry-specific forms and list their products on the platform, disclosing sustainability information.

After review, they achieve the basic sustainability level.

Stage Two

Producers participate in expert evaluations, receiving sustainability assessment indicators and professional advice.

They achieve intermediate sustainability goals.

Stage Three

Producers apply for third-party international sustainability certification based on professional advice.

Upon certification, they reach the advanced sustainability level.

Through the use of the "SR Mark Certification Declaration of Conformity Form", brands, companies, or Producers' Declaration of Conformity disclose basic information.

Experts convene meetings to discuss and certify, as well as provide sustainability service recommendations.

With sustainability service recommendations provided by experts, third-party international inspections are conducted.

PRODUCT VERIFICATION EVALUATION FOR SUITABLE CIRCULAR STRATEGIES

	Product Manufacturing (Build Phase)	Product Usage (Use Phase)	End-of-Life Stage (Loop Phase)
Future	• Percentage of recyclable materials in the product • Percentage of recycled content in the product	• Energy consumption per unit of product use • Product lifespan • Product durability index • Product carbon footprint • Product water footprint	• Percentage of recyclable materials in product packaging • Waste product collection rate in the sales area
Short-term	• Whether the product uses 100% recyclable materials • Whether the product uses over 25% recycled content	• Disclosure of energy consumption per unit of product use (for plug-in or battery-operated products) • Disclosure of product lifespan • Disclosure of product durability index • Disclosure of product carbon footprint • Disclosure of product water footprint	• Whether the product packaging is 100% made of renewable, recyclable, and reusable materials • Whether the product indicates recycling classification information

APPLICANTS



Current Stage	Future Addition	
Product Packaging	Industrial Products	Agricultural Products
Electronic Products	Cultural Industries	Raw Materials
Fashion Products	Social Movements	

SELF-ASSESSMENT CATEGORIES

- **Examination of Product Materials**
  - Amount of Renewable/recycled conten
  - Presence of Toxic Substances in Product Materials or Packaging
- **Product Service Models**
  - Redesign for Sustainable Circularity
  - Product Recycling Rate
- **Packaging Application Standards**
  - Waste Generated During Product Manufacturing
  - Factory Waste Disposal Methods
- **Transportation Modes**
  - Post-Recycling Renewable Ratio

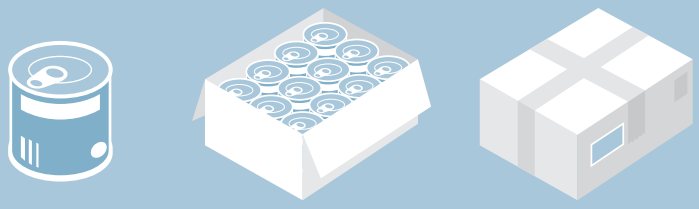
Three Major Industry Standards

Product Packaging

Fashion Products

Electronic Products

PRODUCT PACKAGING DESIGN SPECIFICATIONS



Build Phase	Use Phase	Loop phase
● Use 100% recyclable materials, biodegradable, or reusable packaging ● Utilize at least 25% recycled content in product manufacturing. ● Avoid the use of single-use plastic and PVC.	● Gift box packaging should be at most two layers. ● Avoid single-use plastic packaging and PVC tape. ● The ratio of gift box contents to space should comply with environmental standards. ● Printing ink should be free from heavy metals.	● Packaging should be made of 100% renewable, recyclable, and reusable materials. ● Packaging material should indicate recycling classification information, and recycling methods and channels should be explained.
● Printing ink should be free from heavy metals. Packaging should be made of a single material and sourced locally.	● Paper transport packaging bags should contain over 90% recycled materials, and plastic transport packaging bags and cushioning materials should contain over 25% recycled materials. ● The packaging printing area should be less than 50%.	

Packaging Industry Certification Application Content

The packaging industry focuses on verifying the content of recycled materials, primarily paper and plastic materials. Therefore, there are many certifications and regulations for recycled materials internationally, providing manufacturers with certification application guidelines.

Certification name	EuCertPlast EU Recycled Material Supplier Certification	Blue Angel	GRS Recycled Content Standard	RCS Recycled Content Standard	TUV Recycled Material Verification	UL 2809 Proof of Recycled Content Certification
Target Material	Recycled Material Content					
Minimum percentage threshold	1%↑	80%	1%↑	5%	1%↑	5%
Restrictions on certificate or mark usage	1%~99%	80%↑	50%↑	95%↑、95%↓	1%~99%	5%~99%
Certificate authority	Civil verification agencies are conducted within the EU.	German Federal Environmental Agency and Product Quality Assurance and Certification Organization (RAL)	Private Verification Company (Global)	Private Verification Company (Global)	TUV Rheinland Germany	Underwriters Laboratories

Certification name	PRM Plastic Recycled Material Traceability Verification	Product Environmental Verification	FSC Sustainable Forest Source
Target Material	Recycled Material Content	Recycled Material Content and 16 Other Items	Sustainable Forest or Recycled Material
Minimum percentage threshold	1%↑	1%↑	100%
Restrictions on certificate or mark usage	1%~99%	1%~99%	100%
Certificate authority	Plastics Center	Environmental and Development Foundation	Forest Stewardship Council

▲ Explanation of Certification for Recycled Materials in the Packaging Industry

FASHION PRODUCT DESIGN SPECIFICATIONS

Build Phase

- Use 100% recyclable materials, biodegradable, or reusable packaging.
- Utilize at least 25% recycled content in product manufacturing.
- Avoid the use of single-use plastic packaging and PVC.
- Printing ink should be free from heavy metals.

- Packaging should be made of a single material and sourced locally.

Use Phase

- Gift box packaging should not exceed two layers.
- Avoid single-use plastic packaging and PVC tape.
- The ratio of gift box contents to space should comply with environmental standards.
- Printing ink should be free from heavy metals.

- Paper transport packaging bags should contain over 90% recycled materials, and plastic transport packaging bags and cushioning materials should contain over 25% recycled materials.
- The packaging printing area should be less than 50%.
- Disclosure of product carbon footprint and water footprint.
- Gift boxes and transport packaging should use single materials.

Loop phase

- Packaging should be made of 100% renewable, recyclable, and reusable materials.
- Packaging material should indicate recycling classification information, and recycling methods and channels should be explained.

Application for Certification in the Fashion Textile Industry

The fashion industry primarily focuses on recycled materials and sustainable material sources. Textile manufacturers using polyester-based materials often apply for certifications related to plastic recycling materials, following similar standards as those for packaging materials. Meanwhile, those using natural materials such as cotton, wool, and down typically seek certification for sustainable sourcing.

Certification name	EuCertPlast EU Recycled Material Supplier Certification	Blue Angel	GRS Recycled Content Standard	RCS Recycled Content Standard	TUV Recycled Material Verification	UL 2809 Proof of Recycled Content Certification	PRM Plastic Recycled Material Traceability Verification
Target Material	Recycled Material Content						
Minimum percentage threshold	1%↑	80%	20%	5%	1%↑	5%	1%↑
Restrictions on certificate or mark usage	1%~99%	80%↑	50%↑	95%↑、95%↓	1%~99%	5%~99%	1%~99%
Certificate authority	Civil verification agencies are conducted within the EU.	German Federal Environmental Agency and Product Quality Assurance and Certification Organization (RAL)	Private Verification Company (Global)	Private Verification Company (Global)	TUV Rheinland Germany	Underwriters Laboratories	Plastics Center

Certification name	GOTS Global Organic Textile Standard	OCS Organic Content Standard	RDS Responsible Down Standard	RWS Responsible Wool Standard
Target Material	Global Organic Textile Standard	Organic Content Standard	Responsible Down Standard	Responsible Wool Standard
Minimum percentage threshold	70%	5%	5%	5%
Restrictions on certificate or mark usage	95%↑、95%↓	95%↑、95%↓	標的材質100%	標的材質100%
Certificate authority	Private Verification Companies (Global)			

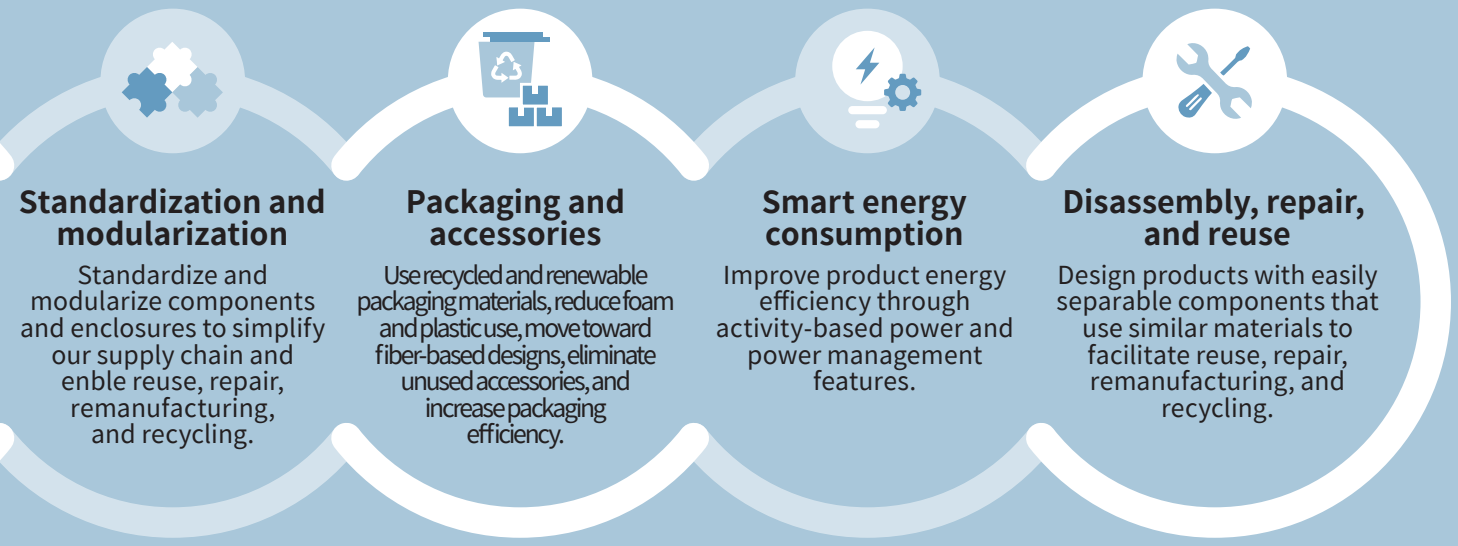
▲ Explanation of Sustainability Certification in the Fashion Industry

CERTIFICATION FOR THE ELECTRONICS INDUSTRY

Material use

Incorpo
rate recycled content into our products, reduce the use of nonrenwable materiais, and consider resorce scarcity risks as part of material selection.

Build Phase	Use Phase	Loop phase
• Use 100% recyclable, biodegradable, or reusable packaging materials • Incorporate at least 25% recycled content in the product • Avoid single-use plastic packaging • Avoid PVC • Ensure printing inks do not contain heavy metals	• Limit gift box packaging to a maximum of two layers • Avoid single-use plastic packaging • Ensure the ratio of gift box contents complies with environmental standards • Avoid PVC tape • Use transport packaging made from paper with a recycled content of over 90%	• Ensure packaging is 100% made from renewable, recyclable, and reusable materials • Label packaging materials with recycling classification information • Provide instructions on recycling methods and channels
• Utilize single-material packaging Source materials locally	• Use plastic transport packaging and cushioning materials with a recycled content of over 25% • Avoid PVC film and tape • Limit printing area to less than 50% • Disclose product carbon footprint • Disclose product water footprint • Use single-material packaging for gift boxes and transport	



Standardization and modularization

Standardize and modularize components and enclosures to simplify our supply chain and enble reuse, repair, remanufacturing, and recycling.

Packaging and accessories

Use recycled and renewable packaging materials, reduce foam and plastic use, move toward fiber-based designs, eliminate unused accessories, and increase packaging efficiency.

Smart energy consumption

Improve product energy efficiency through activity-based power and power management features.

Disassembly, repair, and reuse

Design products with easily separable components that use similar materials to facilitate reuse, repair, remanufacturing, and recycling.

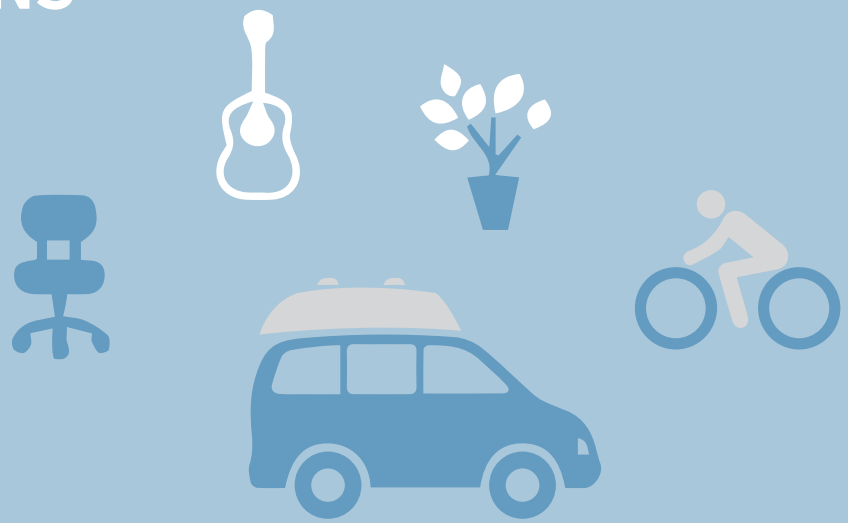
Certification for the Electronics Industry

The mainstream certifications for sustainable electronic products are currently linked to government procurement. Examples include the U.S.-based EPEAT and the Nordic TCO. Moreover, there is a global Circular Electronics Alliance in the process of developing design standards that will be implemented worldwide. The EPEAT criteria are divided into eight main areas, including reducing/eliminating environmentally sensitive materials, material selection, end-of-life design, product life/longevity, energy conservation, end-of-life, company performance, and packaging. TCO criteria are categorized into eight main areas: socially responsible manufacturing, environmentally responsible manufacturing, user health and safety, product performance, product energy efficiency standards, extended product life reducing hazardous substances, material recycling, and sustainable development performance indicators. Additionally, the Circular Electronics Product Alliance released a Circular Electronics Product Blueprint in March 2021, outlining six pathways: establishing design standards, creating procurement incentives, developing business models with sustainable responsibilities, increasing recycling rates, strengthening recycling and reuse, and expanding the recycled materials market. Goals have been set for 2023, 2027, and 2030.

EPEAT	TCO Certified	CEP
Reduce／eliminate environmentally sensitive materials	Reduce hazardous substances	
Material selection	User health and safety	Expand recycled material market
Product end-of-life design	Environmentally responsible manufacturing	Establish design standards
Product lifespan／extension	Product and sustainability information	Sustainable business model
Energy conservation	Product lifespan extension	
Product disposal management	Material recycling	Increase recycling ratesstrengthen recycling and reuse
Company ESG performance	Sustainable development performance indicators	Sustainable business model
Packagin	Material recycling	
		Establish procurement incentive mechanisms

▲ Explanation of differences in certification by Circular Electronics Alliance

UNIVERSAL PRODUCT DESIGN SPECIFICATIONS



Build Phase	Use Phase	Loop phase
• Products use 100% recyclable, biodegradable, or reusable packaging. • Products use at least 25% recycled content. • No single-use plastic packaging is used. • No hazardous substances such as PVC and heavy metals are used. • Printing inks avoid heavy metal content.	• No single-use plastic is used. • Transport packaging uses 100% recyclable, biodegradable, or reusable materials. • Packaging printing area is less than 50%. • Disclosure of product carbon footprint. • Disclosure of product water footprint.	• Products made with 100% renewable, recyclable, and reusable materials. • Packaging material indicates recycling classification information. • Recycling methods and channels are explained.
• Packaging is made of a single material. • Locally sourced materials are used in production. • Durable materials and formulations are used to extend product lifespan.	• Products are designed for easy disassembly and repair using common tools.	

Three-stage Application Process Diagram

SUSTAINABLE CERTIFICATION - 3 TIER SYSTEM

Tier 1: Declaration of Conformity by Producers

Approval and achievement of Tier 1 sustainability certification

STEP 1

Declaration of Conformity based on sustainability self-assessment form

STEP 2

Registration on the platform

STEP 3

Review by the SR mark team

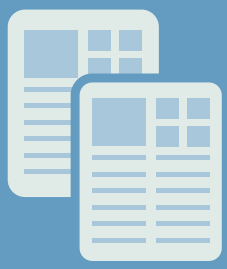
STEP 4

Payment of platform usage fee, approximately NT$500-1000 per year

Stage 2: Professional Assessment

Achieve Stage 2 Sustainability Certification

STEP 1



Submit the Stage2 Review Application Form

STEP 2

Submit the Assessment Fee

50,000 ~100,000

STEP 3

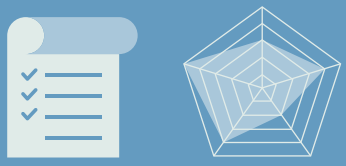
300 pcs

Convene a Committee after receiving 300 applications

STEP 4

Conduct a three-party assessment involving experts, consultants, and sustainability design teams

STEP 5



Provide manufacturers with a recommendation table and radar assessment chart for reasonable evaluation and suggestions for future international sustainability certification directions

Stage 3: International Sustainability Label Connection

Achieve Stage 3 Sustainability Certification (No additional fees on the platform)

Manufacturers apply for third-party international label certification based on professional evaluation recommendations

SR Mark team assists producers in connecting with certification bodies

Guidance for participating in international competitions and promoting achievements internationally

(additional fees apply)

Collaboration with relevant domestic and international entities to promote this sustainability program

(additional fees apply)