

Plastic-Free, Eco-Friendly Kraft Paper Tape

Korea Ministry of Environment Eco-Label Certified (No. EL-103) – Plastic-Free Carton Sealing Solution

Product Description

ECO-SJ is an eco-certified kraft paper packaging tape, offering a plastic-free alternative to conventional BOPP carton sealing tape. Made from all-pulp kraft paper (70 g/m²) with a water-based acrylic adhesive, it delivers strong, reliable adhesion while remaining fully recyclable and VOC-free. ECO-SJ is certified under Korea's official Eco-Label program (Ministry of Environment, Criteria No. EL-103) and backed by ISO 9001 and ISO 14001, making it well suited for exporters targeting sustainable packaging markets, including the EU.

Features & Benefits

- **Government-Certified Eco Label (No. EL-103):** Certified under the Korea Ministry of Environment's official Eco-Label program (Criteria No. EL-103), confirming the product's reduced environmental impact through third-party government assessment – not a self-declared eco claim.
- **No Separation Required at Disposal:** Because ECO-SJ is fully paper-based with no plastic film backing, sealed cartons can be discarded together with the box as ordinary paper waste – no need to peel off or separately sort the tape, simplifying recycling for the end recipient.
- **Strong, Reliable Adhesion:** The 56% solid-content water-based acrylic adhesive provides strong initial tack and durable, long-term holding strength on corrugated cartons; light hand pressure after application further improves bonding.
- **Writable, Print-Ready Surface:** The kraft paper surface can be written on directly and accepts shipping labels and invoices applied on top of the tape, streamlining warehouse and logistics workflows.
- **Plastic-Free & Fully Recyclable:** Manufactured from all-pulp virgin kraft paper with no plastic film, ECO-SJ is fully recyclable with corrugated cardboard packaging, supporting circular-economy and sustainable packaging initiatives.
- **Solvent-Free Silicone Release System:** A solvent-free silicone release coating ensures clean, smooth unwind and consistent dispensing performance without adhesive transfer or residue.
- **Reinforced Total Thickness (115–120 µm):** The combined paper, primer, and adhesive construction provides tear resistance and structural strength suited to demanding logistics, handling, and export shipping conditions.
- **Flexible Width & Length Options:** Available in 50 mm, 70 mm, and 100 mm widths and 40 m, 50 m, 100 m, and 500 m roll lengths to match a wide range of manual and automated packaging lines.
- **Standard Core Compatibility:** A 76 mm core inner diameter ensures compatibility with most industrial and hand-held tape dispensers used in packaging operations worldwide.

Product Images



Technical Specifications

Product Name	Plastic-Free, Eco-Friendly Kraft Paper Tape
Certifications	Korea Eco-Label Certificate No. 29389 – Criteria No. EL-103, issued by Korea Environmental Industry & Technology Institute (KEITI) under the Ministry of Environment, valid 2023.11.06–2026.11.05 · ISO 9001 · ISO 14001 · Separate Collection Exemption Mark
Base Material	All-Pulp Kraft Paper, 70 g/m ² (KP70)
Primer	Water-Based Acrylic Primer
Release Coating	Solvent-Free Silicone
Adhesive Type	Water-Based Acrylic Adhesive
Adhesive Solid Content	56%
Adhesive Coating Weight	65 g/m ²
Total Thickness	115 – 120 µm
Color	Brown
Width	50 mm / 70 mm / 100 mm
Width Tolerance	± 1 – 2 mm
Length	40 m / 50 m / 100 m / 500 m
Core Inner Diameter	76 mm
Application	Carton Sealing / General Packaging Tape

Certification Detail

EL-103 is registered under Korea Eco-Label Certificate No. 29389, issued by the Korea Environmental Industry & Technology Institute (KEITI) on behalf of the Ministry of Environment, covering “EL103”.

Test & Performance Data

Independent third-party testing confirms EL-103's mechanical and adhesive performance, as well as compliance with the Korea Eco-Label alkali dispersibility requirement:

Test Item	Test Method	Unit	Result
Alkali Dispersibility / Disintegration	EL 103:2012	–	Pass (Confirmed)
Tensile Strength	KS T 1055:2017	N/cm	61.0
Tear Strength (width direction)	KS T 1055:2017	N	0.74
Peel Adhesion – Initial	KS T 1055:2017	N/cm	2.9
Peel Adhesion – After Storage/Aging Test	KS T 1055:2017	N/cm	3.4
180° Peel Adhesion	KS T 1028:2018	N/10mm	5.95

Test conditions: 23.0 ± 1.0 °C, 50 ± 2% R.H. Sources: FITI Testing & Research Institute (Report No. M287-23-03904); Korea Conformity Laboratories, KCL (Report Nos. KT23-01789K, CT23-040483K).

Raw Material Safety Summary (MSDS)

EL-103 is constructed from three core raw materials, each supported by a Material Safety Data Sheet (MSDS) confirming non-hazardous classification under applicable GHS / EU REACH standards:

Component	Material / Source	Safety Summary
Base Paper	Unbleached Kraft Paper (Chuetsu Pulp & Paper Co., Ltd.)	Cellulose > 98%; not classified as hazardous (GHS); ignition point 450°C
Adhesive	ITA-92 Water-Based Acrylic Adhesive (Seongji Chemical)	Solvent-free, water-based acrylic emulsion; pH 6–7; not classified as hazardous; NFPA Health 1 / Fire 1 / Reactivity 0
Release Liner	Silicone-Coated Kraft Release Paper (TK Polymer)	Cellulose pulp 90–95%, PVA sizing agent 4–5%, silicone resin 1–2%; not classified as a hazardous substance under EU REACH

Full MSDS documentation is available upon request for import customs clearance and regulatory due diligence.

Application

ECO-SJ is designed for carton sealing and general packaging applications across e-commerce, logistics, retail, and export shipping, offering a sustainable replacement for plastic-based sealing tapes on corrugated boxes.

Packaging

ECO-SJ are individually poly-wrapped and packed 10 rolls per export carton, sealed with the product's own kraft paper tape for a consistent, ready-to-ship master carton configuration.

Rolls per Carton	10 rolls / carton
Roll Packaging	Individually poly-wrapped per roll to protect the adhesive face during transit and storage
Carton Material	Recyclable corrugated cardboard (eco SJ branded carton)
Carton Sealing	Outer carton sealed with EL-103 kraft paper tape itself, demonstrating the product in its own shipping use case
Carton Marking	"Caution When Cutting" handling notice, eco SJ logo, and Separate Collection Exemption Mark (Certificate No. 29389) printed on the carton



Bulk Carton Packaging – 10 Rolls per Box



Sealed Export Carton, Ready for Shipment

Storage & Handling

Store rolls in a cool, dry area away from direct sunlight and moisture. Recommended storage conditions are consistent room temperature and humidity to preserve adhesive performance. Use within the manufacturer's recommended shelf life for optimal tack and adhesion.