

## **ECO LINE - 1 Line, 4 Products, 1 Earth**



In line with 2030 Sustainable Development goals, environmental sustainability is taking priority in industrial processes and activities. We are witnessing a stage of our humanity where the quality of lives in years to come will be determined by how we use our resources today.

From individual to corporate levels, there's an onus on us to make our world greener by deliberate and efficient use of resources and reduced waste. We need to lock in the potentials

of the circular economy to foster a balance between our quality of life and reduction of waste products to a minimum and promoting product recycling and reuse.



For us at PPM, this reality has shaped our activities, especially in the last two years, as our team has worked tirelessly to incorporate Ecodesign into our product offerings, creating sustainable tape designs with minimal effects on the environment throughout their life cycle. Today we present to you ECO LINE, composed of 2 Paper Packaging Tapes and 2 Duct Tapes — the first recycled tapes in the market!

Here — take a look at what we've been up to:

## ECO LINE: The Future of Eco-friendly

At PPM, our drive is anchored in our respect and love for the planet. If you've been around for a while now, you will find that our manufacturing processes are deliberately targeted at creating eco-friendly tapes with a reduced impact on the environment. It was based on this notion that ECO LINE was born.

Here are 4 products in ECO LINE.

### 1. PPM's 4040 Medium-Heavy Weight Paper



Packaging tape represents a major component of our ECO Line product offerings. It is a sustainable paper packaging tape that is made with 30% paper recycled fibers. Following our commitment to our planet, we ensured that 60% of all raw materials used for 4040 Medium Heavy Weight Paper comes from natural sources. Our team achieved this without compromising on our usual excellent and exceptional product benefits. How?

- It offers strong adhesion, whether on paper or cartons
- It is easy to unwind and tear for use

- It is tamper-evident
- It has a firm synthetic rubber that offers an excellent sealing closure for medium-high-weight boxes.

As proof of our eco-friendly approach, 4040 is an FSC®-certified eco paper packing tape, and in line with INGEDE certification, up to 50% of 4040 can be recycled in the paper bin. INGEDE is a German certification that assesses all packaging adhesive tapes to ensure they do not hinder any paper recycling processes. The goal is towards an effective recycling process, and for us at PPM, we consider INGEDE certification an opportunity to advance our Eco Design visions and plans.

## 2. 4050 Heavy Weight Paper Packaging Tape



4050 Heavy Weight Paper Packaging Tape is another remarkable eco-friendly paper tape in our ECO LINE. For this sustained packaging tape, there is a 40% bio-based flatback paper backing and 30% recycled fibers, with quality reinforcements from class filaments. Some of its amazing features include:

- Super-efficient adhesion on cardboards
- Top-shelf hot melt adhesive
- Tamper evident
- Reinforced backing.

Like 4040, 4050 is an FSC®-certified paper packing tape you can dispose of in a paper bin in its box, in line with INGEDE certification. INGEDE assesses the recyclability of packaging adhesive tapes within the graphics paper supply chain, all towards the objective of certifying that the tape applied to such graphics, whether boxes or magazines, do not prejudice the potentials of a seamless recycling process. The certification highlights our Eco Design and project roadmap towards a sustainable planet.

### 3. 9051E Economy Grade Duct Tape



When it comes to eco-friendly duct tapes, we're simply the best in the market. Our creative manufacturing capabilities and innovative ideation has buoyed us in our mission to create the first two recycled duct tapes ever.

This entry-level DIY eco-friendly product isn't just another product on our ECO Line, it is designed for optimized DIY uses and developed with the backing of 60% post-industrial recycled low-density polyethylene, coated with synthetic rubber-resin solvent free adhesive.

About 49% of all plastics used in this product was sourced from recycled materials – which is why the product is PSV (Plastic Second Life) certified.

- Suitable for protecting, repairing and sealing operations
- Great comfortability and adhesion to multiple surfaces
- Easy to tear by hand.

#### 4. 9061E - Utility Grade Duct Tape



Another innovative, eco-friendly duct tape in our ECO Line is 9061E. This is an entry-level DIY compatible tape that boasts a 60% post-industrial recycled low-density polyethylene and a coating made of synthetic rubber-resin, solvent-free adhesive.

9061E - Utility Grade Duct Tape is made of recycled plastic for up to 48%, PSV-certified and features:

- High protection, sealing and repairing DIY activities
- Great conformability and adhesion to multiple materials
- Easy hand tearability.

Now that you've seen the fantastic array of products in our ECO LINE, we are happy to take you on another quick journey — the processes involved in manufacturing our products!

We invite you to take a look at how our team has put together these products, especially in terms of guiding our processes in line with notable environmental sustainability goals. This is mainly divided into:

- (1) use of controlled and certified renewable raw materials
- (2) recyclability of finished products
- (3) use of recycled raw materials.

## 1. Use of controlled and certified renewable raw materials



We use raw materials from plants, biomass and other bio-based materials in manufacturing our sustainable tapes, which is rare in a PSA industry where the backing of packaging tapes is usually with non-renewable materials. This underlines our focus to offer eco-friendly paper packaging and masking tapes to our customers, and obtaining the FSC® certification for many of our adhesive solutions while at it. This certification helps to ensure the responsible use and management of the resources used to create a specific sustainable tape, specifically in terms of their environmental, social and economic impacts.

## 2. Recyclability of the finished product

As far as the PSA industry is concerned, tapes form a huge part of recycling mostly because they are applied to cardboard boxes. By implication, both materials are eventually disposed of together, thus potentially hindering the recycling process. This is why we've created eco-friendly packaging tapes for enhanced recyclability, which is why we've developed our tapes as:

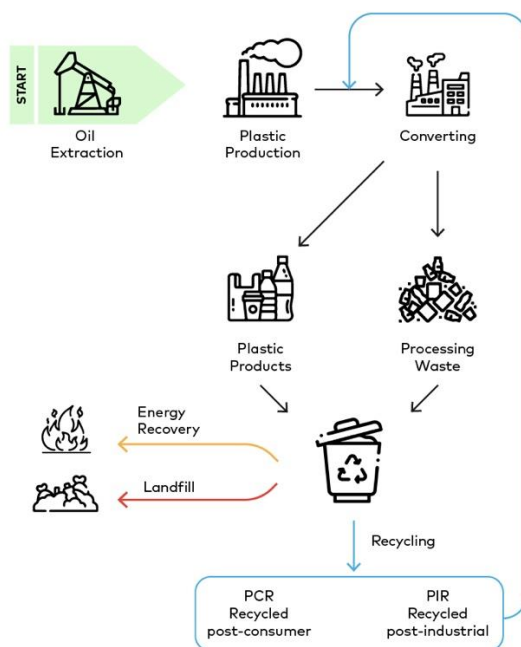
- adhesive tapes that detach from the cardboard their paper backing, which make it possible to recover and recycle these materials with up to 40% of waste
- adhesive tapes effectively detaching from the cardboard, which allow the cardboard to be recovered and recycled.



The INGEDE certification affixed on our products helps to highlight our bold statement as pro-environmental establish and we remain resolute in our resolve towards a sustainable earth.

This is why we have also made plans to obtain ATICELCA (Italy), which will certify the recyclability of cellulosic finished products such as paper or cardboards to speed up the paper recycling process.

### 3. Use of Recycled Raw Materials



Reuse of raw material is at the epicenter of our operations here at PPM, especially in our efforts to reduce the unchecked exploitation of resources. So far, we've been able to translate this goal to develop recycled materials that do not alter the properties of the final products. Case in point are our paper-based products and plastic-based products that are less impactful on the environment, through the use of recycled content – specifically:

- PIR (Post-Industrial Recycled) plastic, which is recovered from industrial production processes waste
- PCR (Post-Consumer Recycled) plastic, which is collected in the recycling chain, cleaned, grounded, and later composed in uniform pellets.

True to our efforts towards sustainable use of resources, PPM is the first company on the adhesive tape market to be Plastic Second Life (PSL)-certified by the Institute for the Promotion of Recycled Plastic.

We raise a glass and say cheers to ECO LINE, as we welcome you into a higher level of eco design and to a sustainable, circular economy.



Please check out our catalog for more eco-friendly products.

If you want to delve more into sustainable and eco-friendly adhesive tape solutions, please feel free to reach out to us. We would be happy to hear from you!

[www.ppmindustries.com](http://www.ppmindustries.com)