INFINITE POSSIBILITIES

DuPont[™] Tyvek[®] DESIGN BOOK



"No design is possible until the materials with which you design are completely understood."

Ludwig Mies van der Rohe A master of modernist architecture

"Excellent design should fully explore the characteristics of the material."

Jamy Yang

Founder, YANG DESIGN & YANG HOUSE Most Influential Designer, by Forbes China Visiting Professor of Tongji University

The Miracle of Science

DuPont continues to be one of the most successful and sustainable industrial enterprises in the world – with products that have made history. Innovative technologies discovered by DuPont scientists include Nylon, Lycra, Teflon, Kapton, Kevlar®, Nomex®, etc. During the Apollo 11 moon landing in July 1969, DuPont materials made up 20 of the 21 layers in the spacesuits worn by Neil Armstrong, Buzz Aldrin and their team of astronauts.

Tyvek[®] is just one of the great inventions by DuPont scientists.

- DuPont submitted a patent proposal for strong yarn linear polyethylene.
- 6- It took several more years for research teams to perfect the complex
 5 manufacturing process, which was based on the flash-spinning technology invented by DuPont Scientist Herbert Blades.
- 965 The newly-engineered sheet structure was registered under the trademark name Tyvek[®].
- 67 DuPont began commercial production of Tyvek® in April 1967. During the first 50 years producing Tyvek®, this one-of-a-kind invention has had a tremendous impact across numerous industries, resulting in the creation of new categories of products, such as:
 - Tyvek[®] house wrap, which helped revolutionize home construction;
 - Personal protective apparel made from Tyvek[®], which set new standards in the industry;
 - Tyvek® medical packaging, which enabled advancements in medical device technology;
 - Designers are starting to use Tyvek® in trendy, lifestyle consumer products. DuPont, along with converters and customers, continues to develop new Tyvek® products to meet evolving marketplace needs.



PART ONE.

FEATURES

Feels like paper, but it's not paper Feels like fabric, but it's not fabric Distinctive look & feel Lightweight & flexible Water-resistant, yet breathable Tear-resistant & durable Printable Convertible 100% Recyclable

DuPont[™] Tyvek[®] – a spunbonded mat a portfolio of tough, durable sheet proc and versatile than fabrics.

Since Tyvek[®] was initially discovered selective barrier technology. Lightwei Tyvek[®] has introduced new dimensio categories, including building envelop Today, Tyvek[®] is being used as a trend

There are two different structures of T paper-like hard structure and fabric-lik chain partners to enhance the flexibil possibilities in color, shape and structu Starbucks, as well as various entrepret Tyvek® that focus on environmental p





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Ligh

Water-resistant Breathable



PART ONE / FEATURES

▶ Paper-like

Artwork made from Tyvek® are available in the How Store of How Art Museum (Shanghai). With their unique texture and feel, fashionable jackets and handbags made with Tyvek® have become the highlight. The inspiration of the design comes from the industrial-grade protective clothing featured in the movie settings of the Inaugural Exhibition of the How Art Museum: "MANIFESTO: Julian Rosefeldt".

FEATURES / PART ONE

Water-resistant < & Breathable

The candy-colored i'mblu 1.0 storage series wash bags feature a lightly-saturated appearance with tough Tyvek® fabric, colorful epoxy logo and multiple internal compartments in an orderly arrangement that is convenient for travel.



PART ONE / FEATURES

Fiber Texture

Made from Tyvek[®] with a special fiber texture, this lantern is disguised as a paper bag. Once opened, a message will appear. The simple design offers homage to minimalism.



Lightweight < & Flexible

Paper-like and tear-resistant, the wristband made with Tyvek® combined with a magnet forms this water-resistant and self-adjustable watch that lights up with an easy touch. It comes in multiple patterns to for the wearer to mix-and-match



FEATURES / PART ONE

► Unique Touch & Feel

This natural mineral diffuser in a cylindrical container made of Tyvek® challenges those designed with precise lines of mechanically, mass-produced products. The earthy shape offers the same simplicity with a bohemian charm.

Tear-resistant ◀ & Durable

Tear-resistant and durable, Tyvek® enables the pages of a book to be transformed into a mobile lamp. The design ensures that it is lightweight, portable, and chic. Light up the night and enhance the coziness of home with a romantic atmosphere.



PART ONE / FEATURES

Sustainability

Low additives

Tyvek[®] is made without plasticizers or restricted chemicals listed in European Directives, such as RoHS (Directive 2015/863/EU) or REACH Substances of Very High Concern (SVHC).

Light weight

The superior strength-to-weight ratio of Tyvek® potentially can reduce energy use in transportation compared to heavier competitive products.

Less waste

Lower material weights result in less energy and resource consumption, as well as less material waste at the end of product life.

Recyclability

Tyvek® is made of HDPE and is recyclable.





B.L.B.M bedding product packaging bag Material: Tyvek® soft structure

Bananain underware product packaging envelope Material: Tyvek® hard structure 12

PART TWO.

CONVERTING CASES

► COLOR

Lightweight, yet tear-resistant, Tyvek® is made into a series of cool and durable wallets. The patterns printed on the wallets tell different stories to connect with the individuality of its users.

Dynomighty Wallet

Material: Tyvek® hard structure Main process: <u>printing</u>, die cutting, gluing





COLOR <

Cosmetic pouch for VIP airline passengers that is water-resistant, lightweight and portable. The dark blue color and simplicity of the design shows off its superior quality.

Airline passengers cosmetic pouch

Material: Tyvek® soft structure Main process: <u>printing</u>, sewing







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► COLOR

"As a graphic designer, I was especially interested in 'paper-like' things. Luckily, I found Tyvek®. I was fascinated by the unique look-and-feel of this material. With the nice durability and texture somewhere between clothing and paper, Tyvek® delivers a very different style – and it also helps us to easily position our product offerings."

> Guanru Lu Director of Design, Fyber Forma

CONVERTING CASES / PART TWO

COLOR <

The zipper hidden in the soft cover can function as a business card or pen holder and the hot-stamped motto adds a personalized touch for book lovers.

OWSPACE Book Cover

Material: Tyvek® hard structure Main process: <u>printing</u>, hot stamping, die-cutting, sewing



COLOR

This adorable doll made with unique, paper-like nonwoven Tyvek[®] could be doodled on again and again, allowing children to unleash their infinite creativity.

CONVERTING CASES / PART TWO

SHAPE <

Just like a dandelion ready to be scattered by the wind, the shadows created by this pendant lamp create a playful mood when lit and enhance the style of a room when switched off.

Painting Doll

Material: Tyvek[®] soft structure Main process: <u>printing</u>, sewing and painting

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IKEA MASKROS Pendant lamp

Material: Tyvek® hard structure Main process: die-cutting

► SHAPE

Made of durable Tyvek[®] material, these outdoor lanterns are tough enough to show off their lacy beauty all year round.

CONVERTING CASES / PART TWO

SHAPE <

"Until dawn" by Tord Boontje is an elaborate panel of flora and fauna that plays with light creating intriguing shadows. Made of Tyvek®, a super-resistant material, the curtain comes with Velcro-closure loops for hanging over a wire, pole or from hooks. With scissors, you can cut it to the desired length: there's no need to sew!

Allsop Soji Stella Solar Lanter Material: Tyvek® soft structure Main process: PU-coating, <u>laser cutting</u> "Until Dawn" hanging curtain by Tord Boontje Material: Tyvek® hard structure Main process: <u>laset cutting</u>

► SHAPE

Tyvek[®] is just as silent and powerful as Chinese characters. Paper-like yet tear-resistant, the oblique folded design of the cover transforms this vertical notebook to accommodate business cards and pens, and inspires readers to embrace the infinity of thought through illustrated black characters printed on white paper. The knitted shape makes this notebook look solid and tactile.

Ruralscape Notebook Material: Tyvek® hard structure Main process: printing, cutting, <u>hand knitting</u>



► SHAPE

"It's common to focus on the shape of the products in product design innovation, but it becomes harder to differentiate the design from others. The adoption of new materials in the designs themselves could often make breakthroughs in modeling."

Huang Xiaojir

YANG DESIGN Strategic Director Chief Editor of China Design Trends Report Design Trend Expert, CMF expert



SHAPE <

"We know Tyvek[®] is an artificial fiber and this gives the strength of the fabric. But it looks very natural and trendy. Our products designed with Tyvek[®] have received very positive feedback from the market because it's so surprising and exciting to the customers. "

> Toni Racioppi Lazy-Life Paris Founder/ CEO

> > Lazy-life Paris Sofa

Material: Tyvek® hard structure Main process: printing, <u>sewing</u>



YANG DESIGN Paper

Material: Tyvek® soft structure Main process: <u>folding</u>

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► RESTRUCTURE

The light blue color of the fabric creates an exaggerated and eye-catching effect. The i'mblu 2.0 storage bag series highlights the free lifestyle of younger generations in the city.



i'mblu 2.0 storage bag and Zara cotton-padded jacket

Material: Tyvek® soft structure Main process: PU-coating, sewing PART TWO

NVERTING CASES

s Park

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RESTRUCTURE

Simplicity is the ultimate sophistication. When combined with lines of gradually changing colors, the PU-laminated pure white palette of Tyvek[®] soft structure is transformed into this visually simple yet high-quality bag inspired by Apple.

Apple Park Reusable Bags

Material: Tyvek[®] soft structure Main process: <u>PU-coating</u>, printing, die-cutting

CONVERTING CASES / PART TWO

RESTRUCTURE <

In a crumpled texture, Tyvek[®] brings a laid-back feel to urban fashion emanating a casual brand essence.

Zara "Paper-Feel" Tote bag

Material: Tyvek® hard structure Main process: printing, <u>laminating</u>, <u>softening</u>



SUCCESS CASES / PART THREE

NAKKO desktop storage series

Designed by home essentials brand NAKKO (previously named Have's), this extremely beautiful storage bag features the Pantone 2017 Color of the Year. The bag's tri-color palette of cornel pink, forest green and navy blue is inspired by movies. Classic lines are printed on Tyvek[®] enabling the bag to have a shiny texture and make a very beautiful visual impression. The adoption of this unique material and correct brand positioning have enabled NAKKO to achieve high product and market recognition specializing in "beautifying small spaces".

PART THREE.

SUCCESS CASES



LOVE ACTUALLY IS ALL AROUND.

PART THREE / SUCCESS CASES

► STARBUCKS

Starbucks brand derivatives and Icy Dumpling bags

In March 2018, Starbucks China launched a line of derivative products called "Loving the Earth" that played a lead role in its sustainability project. The product line included a pouch, backpack, long-handled umbrella, lunch box handbag, shoulder bag and doodle bears – all made from the lightweight, water-resistant, tear-resistant and reusable material of DuPont[™] Tyvek[®]. Starbucks encourages its brand followers to live in an environmentally-friendly yet fashionable life.

Tyvek®, a sustainable material, helped Starbucks China deliver the brand positioning message during the "Earth Hour" activity.



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SUCCESS CASES / PART THREE

In April 2018, as a free giveaway celebrating Starbucks Icy Dumplings for the traditional Chinese holiday Dragon Boat Festival, Starbucks China launched two gift bags designed with Tyvek®. Both the "ice-fashion" bag in black and white, and the "ice-leisure" bag with internal black and white coffee elements, are models of fine design. The water-resistant, lightweight, and unique look-and-feel of Tyvek® made the bags so attractive, which helped the sale of the Icy Dumplings.

PART THREE / SUCCESS CASES

► Fyber Forma

WWW.FYBERFORMA.COM

Fyber Forma is a designer brand from Taipei, Taiwan. The brand name is the combination of 'fiber' and 'form' with a slight twist expressing that fiber can exist in all imaginable forms. Specializing in gender-neutral personal wear and accessories, their major products are coats, jackets, and a variety of bags focused on demonstrating the beauty and uniqueness of Tyvek® and epitomizing a self-confident and sensible personality.



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Tyvek.

INFINITE POSSIBILITIES

Design without boundaries this is just the beginning of the journey to infinite possibilities with Tyvek®

FIND US



http://design.tyvek.com http://www.tyvek.com

 Image: http://instagram.com/tyvekdesign

 http://www.linkedin.com/showcase/dupont-tyvek-design/

DESIGNED BY YANG DESIGN

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