

「DUPONT」
Tyvek®

DuPont™ Tyvek®
for Demanding Active Packaging

About DuPont™ Tyvek®

Protection for demanding packaging applications

Made of high density polyethylene fibers, DuPont™ Tyvek® brand materials are manufactured in a unique flash-spinning process without the use of binders — offering a durably rugged sheet structure that outperforms several conventional packaging materials. Tyvek® combines ideal physical properties of paper, film and fabric to offer unique advantages for a wide variety of demanding active packaging applications.

Tyvek® brand materials are extremely durable, puncture resistant and feature high water vapor transmission rate (WVTR) , allowing for easy moisture and gas passage, that makes this material ideal for sorbent packets.

Uncoated medical grade Tyvek® is chemically inert and is ideal for desiccant packs used in regulated healthcare product packaging.



Lightweight



Tear resistant



Water resistant



-80° C / +80° C
-112° F / +176° F



Breathable



Low-linting



Printable



Recyclable***

| | Tyvek® product | | | | | | |
|---|----------------|-------|-------|---------|-------|-------|--------|
| Application | 1025B | 1059B | 1073B | 2025B** | 1025D | 1056D | 2058C* |
| Health Care Desiccant | | ● | ● | | | | |
| Electronic Desiccant | | | | | ● | ● | |
| Container Desiccant | | ● | ● | | | | ● |
| Food Active Packaging, Food Processing & Scavenger Sachet | ● | ● | ● | ● | | | |

* Coated product
** Coated product, only for US FDA Food Contact Regulations
*** Tyvek® is made of HDPE, and products made of 100% Tyvek® material can be recycled at facilities that recycle flexible HDPE materials. Please check recycling facilities in your area to ensure they can recycle Tyvek®.

DuPont™ Tyvek® Active Packaging
packaging.tyvek.com

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Tyvek® for Healthcare Desiccant

Packaging for Moisture Absorption



Key challenges:

For pharmaceutical and healthcare products, moisture is always a challenge. It can impact the chemical and physical stability of drugs and nutritional supplements.

Desiccant packs inside the product packaging can help absorb the moisture inside and help preserve the products throughout their shelf life. However desiccants' particle shedding or possible leakage might be a potential contamination threat to the healthcare products.

The pharmaceutical and healthcare sector faces stringent regulations that vary from country to country, particularly concerning materials that come into contact with the contents.

What Tyvek® can provide:

- Supporting Regulatory information for selected offering: European Pharmacopoeia 3.1.3 and 3.1.5; USP <661.1>; US FDA Food Contact Regulation (21 CFR 177.1520); European Food Contact Regulation (EU N° 10/2011 and EC N° 2023/2006) – The regulatory information letters are available upon request.
- Breathability helps enabling moisture absorption.
- Low linting, super nonwoven structure and good durability to keep what inside always inside.
- Tyvek® styles without antistatic treatment will not promote the growth of mildew or other microorganisms.
- Chemical and solvent resistance (Technical handbook)

Offering:

Tyvek® 1059B, Tyvek® 1073B



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Tyvek® for Electronic Desiccant

For Reliable Protective Packaging

NOT EAT
CONTENTS OF MIL-D-3464E / UNIT
DECONTAMINATION TIME IN BAG 16 HOURS AT 23°C
0 398-2 WUFANG TIME IN BAG 16 HOURS AT 23°C
Jiangsu Province, Wufang District, China
Package in DuPont Tyvek®



Key challenges:

Electronic elements are usually of high value and very sensitive to humidity, static electricity and particles. Exposed to those may result in irreversible damage and huge economic loss. Desiccants are essential to ensure the required environmental humidity during storage and transportation. Meanwhile, the package needs to meet strict standards to avoid potential risk to the elements.

What Tyvek® can provide:

- Material not containing restricted chemicals above the limits, as listed in European Directives, such as RoHS (Directive 2015/863/EU) or REACH Substances of Very High Concern (SVHC).
- Puncture resistance helps prevent the bag from bursting.
- Performance helps meet requirements of MIL-D-3464E military specification.
- Low linting and a smooth surface that avoid particle release and scratching.
- Anti-static treatment helps minimize electrostatic discharge.



Offering:

Tyvek® 1025D, Tyvek® 1056D

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(2024.01 JD)

Tyvek® for Container Desiccant

For Secure Packaging Under Severe Conditions



Key challenges:

During transportation, the container may be subject to great temperature change. Especially when the container is moving from high temperature to lower, high humidity will cause water drops to form inside the container as well as inside package of the product which could damage the goods. Desiccant can help reduce environmental humidity but need to make sure itself meets stringent test to avoid potential burst and contamination of the container.



What Tyvek® can provide:

- Material not containing restricted chemicals above the limits, as listed in European Directives, such as RoHS (Directive 2015/863/EU) or REACH Substances of Very High Concern (SVHC).
- Puncture resistance helps prevent the bag to burst.
- Water resistance & breathability reducing humidity that may spoil goods in the container.
- Performance helps meet requirements of MIL-D-3464E military specification.



Offering:

Tyvek® 1059B, Tyvek® 1073B, Tyvek® 2058C

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Tyvek® for Scavenger Sachet

For safe and robust protection

Ethylene
remover

Key challenges:

In the food industry, safety performance always comes first. Strength, breathability and water resistance are very important attributes required by active packaging for food to ensure the packaging safety performance as well as in use.

Oxygen and Ethylene scavenger sachet also requires good gas permeability and robustness so as to help ensure the safety performance and easiness to use.



What Tyvek® can provide:

- Supporting Regulatory information for selected offering : US FDA Food Contact Regulation (21 CFR 177.1520);
European Food Contact Regulation (EU N° 10/2011 and EC N° 2023/2006) – The regulatory information letters are available upon request.
- Breathability that enable moisture, oxygen and ethylene adsorption.
- Puncture resistance helps prevent the bag to burst.



Offering:

Tyvek® 1025B, Tyvek® 1059B, Tyvek® 1073B,
Tyvek® 2025B*

* Only for US FDA Food Contact Regulations

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