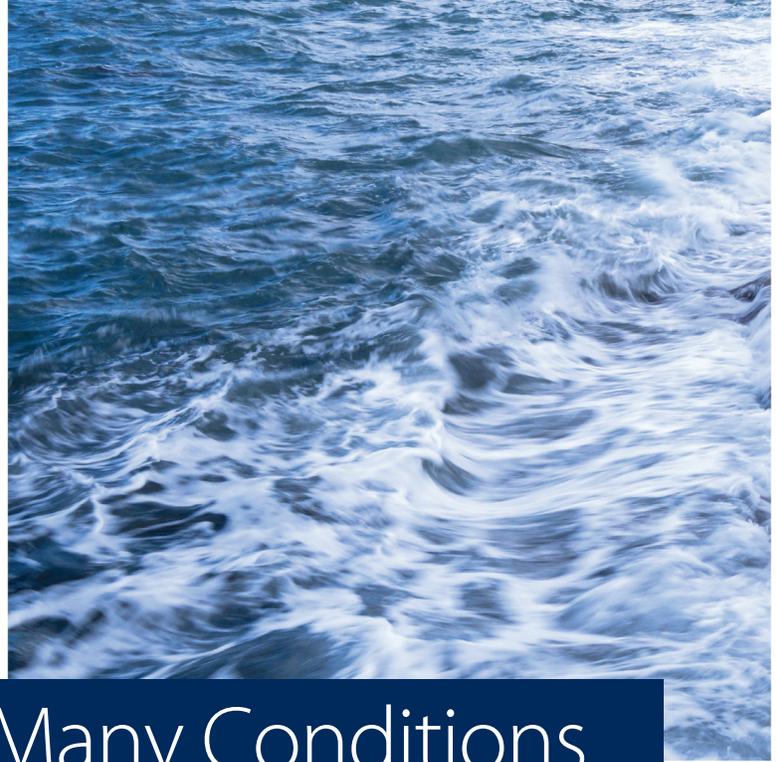
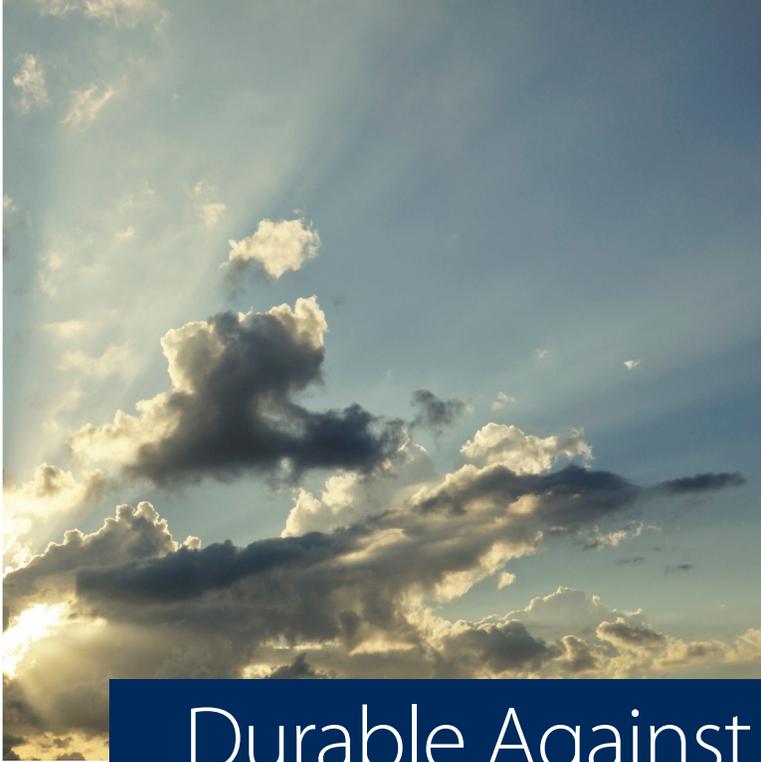


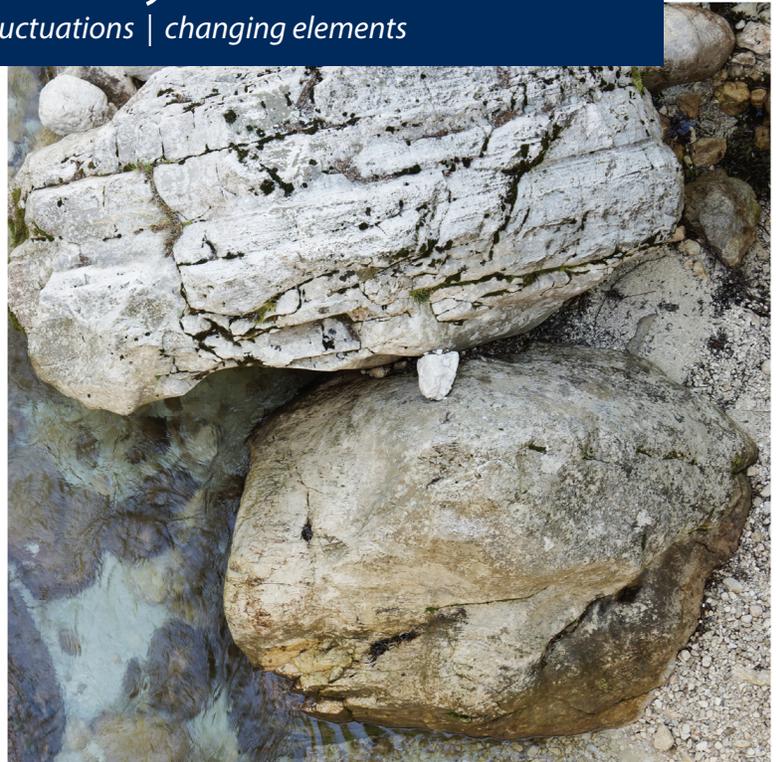
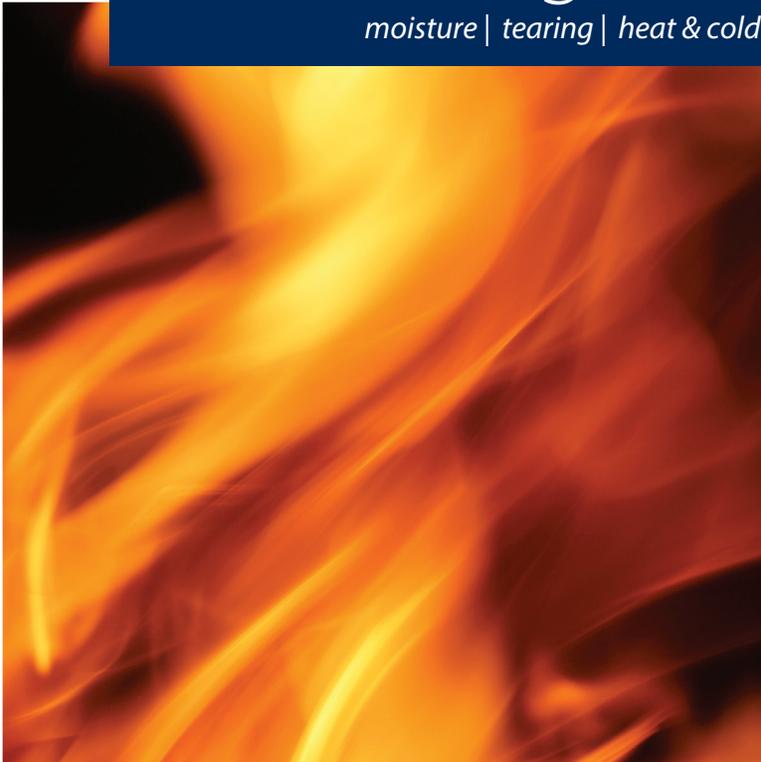
DURABLE PAPER

solutions by **RELYCO** When traditional paper is not enough



Durable Against Many Conditions

moisture | tearing | heat & cold fluctuations | changing elements



ideally suited for use anytime printed materials will be subject to frequent handling or environmental elements

Relyco Offers Durable Paper Solutions

For the application where traditional paper is not enough, Relyco offers a line of durable paper products that last.

By offering both a pure synthetic as well as a layered product that is partially synthetic, Relyco offers our customers two levels of synthetic paper, so that you can select what works best for your unique application requirements.

Relyco's Durable Paper products are ideal anytime printed materials will be subject to frequent handling or extreme environmental conditions. Additionally these papers offer the image quality and printability of conventional paper and can be folded, punched, or die cut as needed, making it valuable for thousands of applications across all industries—including hospitality, retail, education, healthcare, and government.

Relyco's line of durable paper products provide strength, resilience and digital compatibility, all in one. Whether you are looking for a pure synthetic paper that is waterproof and tear-proof, or a durable paper that is tolerant to water and is tear resistant, our product specialists can recommend the right product for your project and your printer.

Common Applications by Industry

Industrial:

- Chemical Drum Tags
- Parts Manuals
- Maintenance Manuals
- Electrical Diagrams
- Construction Signage
- Crate/Pallet Tags

Retail:

- Hanging Signs/Banners
- Point-Of-Purchase Displays
- Product Pricing Placards
- Window/Counter Signage
- Restaurant Menus
- Table Tents

Hospitality:

- Hanging Signs/Banners
- Product Pricing Placards
- Restaurant Menus
- Table Tents
- Placemats

Healthcare:

- Medical Charts
- Medical Lab Documents
- ID Tags/Cards
- Informational Posters
- Emergency Guides
- Triage Tags
- Blood Test Tablet Forms

Education:

- Manuals
- Book covers
- Rulers/book marks
- Student ID cards
- Parking passes
- Permit hangers
- Charts/calendars
- Flash cards
- Puzzles

Recreational:

- Bicycle/Runner's Bib
- Sailing Log Books
- Trail Maps
- Event Passes
- Concert Tickets
- Golf Score Cards
- Playing Cards

State & Federal Government:

- Temporary License Plates
- License/ID Cards
- Transit/City/Park Maps
- Parking Tickets
- Permits/Regulations
- Training Manuals
- Military Field Manuals

What is Durable Paper?

Conventional paper is made primarily from wood pulp and lacks durability, tear resistance, and moisture resistance. Synthetic paper is manufactured using synthetic resin derived from petroleum. This type of paper maintains many of the qualities of conventional paper such as a white and opaque appearance, and similar printing and processing capabilities. It also offers characteristics of plastic film, including: Durability, Heat-Tolerance, Tear-Resistance & Moisture-Resistance. Tests have reportedly found synthetic papers to be up to 10 TIMES more durable than natural-based grades.

Durable paper, or synthetic paper, is becoming more and more popular as customers look to extend the life of their paper application. This increase in demand has yielded an increase in manufacturers and various manufacturing processes. Some manufacturers opt to cavitate their paper, by creating bubbles or voids that fill the synthetic paper with air as a core. This approach can cause runability issues and discoloring over time because the core of the product does not consist of any actual material.

A true, or pure synthetic, on the other hand, has no pulp, air, or other material as filler. The advantage to a product of this type is that it is virtually impervious to environmental changes, does not break down from repeated handling or sun exposure, and is tear proof.

Here at Relyco we only offer our customers quality products. Rather than create a composite product that is cavitated, Relyco takes a different approach offering two durable paper products to meet your needs. TriDura combines two outer layers of paper with an inner synthetic core. These layers (paper/polymer film/paper) provide the flexibility and feel of paper, but the inner polymer construction make it less likely to have coloring and runability issues.

TriDura, a water tolerant paper, is ideal for customers who are looking for something that is more durable than standard paper but do not need all the advantages of a full synthetic durable paper product. TriDura is suited for use anytime printed materials will be subject to frequent handling or environmental elements.

For applications that require the printed material be virtually indestructible, Revlar waterproof paper provides users with a product that is 100% synthetic, impervious to grease and chemicals, and able to withstand temperature or environmental fluctuations. Revlar is Relyco's flagship durable paper product and continues to provide customers with the reliability, durability and strength that they need for their durable paper applications.



Selecting the Right Durable Paper for You

What is the application?

How the durable paper will be used is one of the best indicators of how you will choose between Revlar and TriDura. Some things to think about before you choose:

How long will it need to last?

A good rule of thumb to consider using Revlar versus TriDura is to understand all of the elements of your application. Will your finished, printed piece need to hold up for a short period of time in a variety of environmental conditions? Revlar continues to lead for longevity and tolerance to changing conditions, but for short term requirements, TriDura will give you the weather and tear resistance you need and the print quality you've come to expect from Relyco specialty papers.

Will it be subject to rain and the elements?

TriDura offers superior moisture strength for short term usage. Temporary signage, take-out menus, event/theme park maps, and notices are some of the common applications for TriDura because they are not subject to long term changes in environmental elements. Revlar, on the other hand, has the longevity and durability needed for tough conditions. Using signage as an example, consider this: Is your sign a temporary sign, for something like a parade, or special parking for an event? TriDura is a great product to consider for short term usage. But if your sign is mission critical, or one that will remain in place through weather and seasonal changes, then Revlar would be a better option for your application.

Tear Proof vs. Tear Resistant

Another important factor when selecting a durable paper is how it will be used after printing. Relyco's pure synthetic product, Revlar, is tear-proof, because it is a solid plastic sheet. Layered materials like TriDura are tear-resistant. Tear resistant materials are more easily damaged, prone to abrasion, and once damaged, break down fairly quickly.

Handling & Durability

One way to identify which material will be durable enough is to understand if your printed piece will be handled frequently, or need to be cleaned (such as in a medical facility or "clean room"). In that type of environment, Revlar is a better choice because its pure synthetic composition won't break down when wiped down, and won't become tattered or peeled along the edge due to frequent handling.

If your printed piece is subject to frequent changes (such as a menu) and needs to be folded and stay folded, TriDura is a better option. TriDura is three layers, paper, polymer film, and paper. The outside paper layers allow you to fold and crease your printed material, and will offer resistance to tearing and moisture.

What type of printer is being used?

TriDura, will run on almost any printer. The unique construction of paper/polymer/paper also provides compatibility with flexo, litho offset, laser, digital, UV and ink jet printing. Revlar can be used in an offset, UV, laser, digital and Indigo printing environment. Your Relyco product expert can help you evaluate the best material for your application and your printer.

The chart on the next page will help you choose which paper to use for your application.

Comparison Key: ✓ - Best ✓✓ - Great ✓ - Good x - Doesn't Apply		REVLAR	TRIDURA	PAPER
	Withstands High / Low Temps	✓✓✓	✓✓	x
	Waterproof	✓✓✓	✓✓	x
	Tear-proof	✓✓✓	✓✓	x
	Durable	✓✓✓	✓✓	x
	Foldability	✓	✓✓✓	✓✓✓
	Lifespan	✓✓✓	✓✓	✓
	Chemical Resistant	✓✓✓	✓	x

"Virtually Indestructible" Substrate for Signage, Labels, Menus – You Name It, Thousands Of Uses!

Ideally suited for use anytime printed materials will be subject to frequent handling or extreme environmental conditions, REVLAR paper is tear-proof and durable, as well as impervious to grease and chemicals, and designed to withstand high and low temperature fluctuations.

REVLAR combines the image quality and printability of standard paper with a durability and resilience unmatched by any other product. It can be folded, punched or die cut as needed, making it valuable for literally thousands of applications in a range of industries – including hospitality, retail, education, manufacturing, healthcare and government.

For applications that need color, durability and the ability to withstand the elements, REVLAR vibrant and pastel colors is a great solution. Save ink, toner, time and resources by eliminating flood coating and lamination. There is no longer a need to flood coat a sheet of white paper.

Features & Benefits

Available Colors

- **Vibrant Colors** include: fiery red, majestic blue, blazing orange, brilliant yellow, spring green and desert sand
- **Pastel Colors** include: pastel pink, pastel yellow, pastel green and pastel blue
- Colors come in 5 mil weight and standard sizes include 8.5" x 11" and 12" x 18" – custom sizes can be ordered
- **White Stock**
- Available from 3.7 to 13.7 in sizes ranging from 8.5" x 11" to 20.5" x 14.33" - custom sizes can be ordered
- **Inkjet options are also available**

Durable, Tear-proof and Waterproof

- Withstands rain, heat and temperature variations; deters grease, solvent and chemicals; will not tear or fade
- Ideal in a range of applications, from restaurant menus to military field manuals to parking tickets

Superior Laser and Inkjet Image Quality

- Appearance, smoothness and printability of standard paper
- Works in nearly any standard laser printer and digital press
- Bright white sheets enable high image quality on the finished product

Cost-Effective

- Long-lasting material saves on replacement costs
- More affordable – and faster – than lamination
- No need to laminate – toughness & durability built right in

"REVLAR, in addition to being the more durable, user-friendly product, is also the most cost-effective"



Signage, Tags, Posters, Labels



Pre-Perforated Items



Colors are Great with White Toner



Menu, Pamphlets, Brochures

Thousands of Applications - What is yours?

- | | |
|---|--|
| <p>Retail:
Shelf wobblers/danglers
Retail tags/clothing
Point-of-sale banners
Point-of-purchase displays
Key cards
Signage</p> | <p>Permits/regulations
Training manuals
Military field manuals</p> |
| <p>Education:
Signage
Student ID cards
Parking passes/permit hangers
Flash cards</p> | <p>Medical:
Hospital manuals
ID tags/cards
Signage
Emergency guides</p> |
| <p>Hospitality:
Menus
Placemats
Hotel door handle tags
Water-bottle labels
Event passes
Signage</p> | <p>Industrial:
Badges
Chemical drum tags
Construction signage
Crate/pallet tags</p> |
| <p>Government:
License/ID cards
Signage
Parking tickets</p> | <p>Recreational:
Runner's/cyclist's bibs
Event passes
Signage
Lift tickets</p> |
| | <p>Multi-Industry:
Tab dividers
Tickets
Signage
Posters</p> |

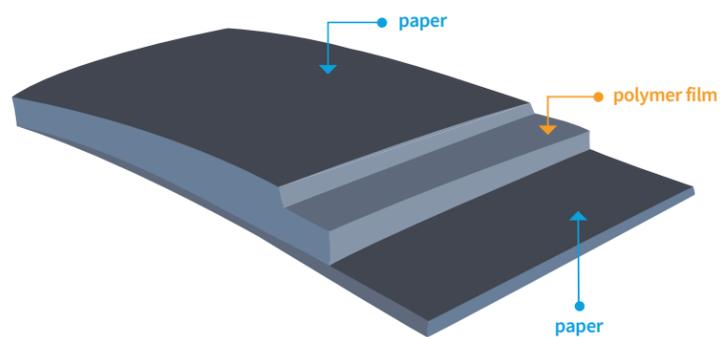
Durable Paper Alternative

TriDura is ideal for customers who are looking for something that is more durable than standard paper but do not need all the advantages of a full synthetic durable paper product. TriDura is suited for use anytime printed materials will be subject to frequent handling or short-term environmental elements.

TriDura combines the image quality, foldability and printability of standard paper with the durability and resilience unmatched by any standard paper. It can be folded, punched, glued, perforated, scored or die cut as needed, making it valuable for thousands of applications in a range of industries—including recreation, hospitality, retail, education, manufacturing, healthcare and government.

The Anatomy of TriDura

TriDura durable paper is layered paper with a synthetic core making it tolerant to water and tear-resistant. A polymer film core allows the durability of synthetic paper with the look and feel of regular paper.



TriDura often replaces standard paper. View the various thicknesses that are available, and compare to the paper that you may currently be using for your particular application. TriDura feels and prints like paper but is durable enough to tolerate water and is tear-resistant.

Because of the unique construction of paper/polymer/paper, TriDura will run on almost any printer and also provides compatibility with flexo, litho offset, laser, digital, UV and inkjet printing.



- ### Thousands of Applications - What is yours?
- Retail:** Store Guides, Retail tags/clothing labels, Postcards
 - Education:** Manuals, Book covers, Charts/calendars, Flash cards
 - Hospitality:** Take-Out Menus, Cookbooks, recipe cards, Airline tray liners, Placemats, Parking Passes
 - Government:** Transit/city maps, License/ID cards, Parking tickets, Permits/regulations, Training manuals
 - Medical:** Charts, Manuals, Emergency guides, Medical laboratory forms
 - Industrial:** Blueprints, Manuals, Electrical diagrams
 - Recreational:** Travel Guides, Trail maps, Event passes, Golf score cards, Lift tickets
 - Multi-Industry:** Permits/Certificates, Brochures, Tab dividers, Tickets, Calendars

- ### Features and Benefits
- Available in three weights
 - 4 Mil Matte White (100 gsm)
 - 7 Mil Matte White (150 gsm)
 - 9 Mil Matte White (200 gsm)
 - Durable, tear-resistant and tolerant to water
 - Withstands moisture, heat and temperature variations
 - Ideal in a range of applications, from take-out menus to city guides to permits
 - Superior folding and image quality
 - The appearance, smoothness and printability of standard paper
 - Folds well in either direction and holds a tight fold
 - Cost-effective
 - More affordable and faster than lamination
 - Compatibility
 - Compatible with conventional flexo, litho offset, laser, digital, UV and inkjet printing
 - Environmentally Aware
 - TriDura is made with FSC certified papers

DURABLE PAPER

CHOOSE THE RIGHT DURABLE PAPER FOR YOUR APPLICATION

Durable Papers Available from Relyco

Relyco offers Revlar and TriDura in various thicknesses, sizes and colors. To compare our Durable Papers to the type of paper you may currently be using today, we have provided a chart below which includes the mil and gsm for each Revlar and TriDura product. With over 75 Durable Paper stock items available, we are sure you will be able to find just the right product to fit your needs. However, if you do not see a specific product that you are looking for make sure to reach out to us today to discuss custom development options!

Item #	Paper Type	8.5" x 11"	8.5" x 14"	11" x 17"	12" x 18"	13" x 19"	20.5" x 14.33" (IGen)
REVLAR White							
504	3.7 Mil White (125 gsm)	•			•		•
505	4.7 Mil White (155 gsm)	•	•	•	•	•	•
506	5.7 Mil White (198 gsm)	•		•	•	•	•
508	7.7 Mil White (258 gsm)	•	•	•	•	•	•
511	10.7 Mil White (368 gsm)	•		•	•	•	•
514	13.7 Mil White (510 gsm)	•			•		•
REVLAR Pastel Colors in 5 Mil (172 gsm)							
505(color)	Pink, Yellow, Green, Blue	•			•		
REVLAR Vibrant Colors in 5 mil (172 gsm)							
505(Vcolor)	Red, Orange, Green, Yellow, Blue & Sand	•					
REVLAR Specialty							
505FR	4.7 Mil Translucent (125 gsm)	•			•		
508GM	7.4 Mil Gloss / Matte (258 gsm)	•			•		•
508BL	8 Mil Backlit (279 gsm)	•			•		•
502A	2 Mil Label Low Tack - Clear	•			•		
502B	2 Mil Label Low Tack - Matte	•			•		
502D	2 Mil Label Permanent - Gloss	•			•		
502E	2 Mil Label Permanent - Matte	•			•		
502MGDL	2 Mil Label -Marine Grade	•			•		
504WVMA	4 Mil Microsphere Label (294 gsm)	•			•		
505US-IN	5 Mil White HP-Indigo				•	•	
508US-IN	8 Mil White HP-Indigo (Available in Matte, Semi-Gloss or High-Gloss finish)				•	•	
511US-IN	11 Mil White HP-Indigo				•	•	
REVLAR Die Cut Sheets - Available in 8.5" x 11" on 7.7 Mil unless noted otherwise							
Luggage Tags - 4 per sheet	ID Cards - 6 per sheet	Shelf Wobbler - 2 per sheet	License Plate - 1 per sheet				
Door Hanger - 3 per sheet	Book Mark (curved) - 8 per sheet	Wire Tags - 8 per sheet	Wristbands (3.7 mil) - 8 per sheet				
Door Hanger - 6 per sheet	Lanyard Badge - 8 per sheet	Plant Wraps (4.7 mil) - 13 per sheet					
TriDura White							
327	4 Mil Matte White (100 gsm)	•			•		
354	7 Mil Matte White (150 gsm)	•			•		
374	9 Mil Matte White (200 gsm)	•			•		



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About Relyco: For more than 25 years Relyco has been the premier supplier of unique and innovative paper products specifically designed for laser, digital and inkjet printers. Our products are great for thousands of applications and uses – enabling you to get the most value out of your printer investment. Understanding and meeting our clients’ needs is always our first priority. Visit us at www.relyco.com or call (800) 777-7359.

