Rapid-Roll[®] Synthetic Tag Portfolio

Ready for the Outdoors Challenge





Portfolio Overview

Rapid-Roll[®] Synthetic Tag Portfolio

Product Information

The demand for synthetic materials continues to increase, with applications requiring diverse attributes - superior strength, UV stability, chemical and moisture resistance, sharp graphics and more. Select from our extensive offering of synthetic tag products designed to maintain the look, feel and processing capabilities of paper, with the strength and durability achieved only from a film-based substrate.

Tear Resistance

This feature is needed if the material must withstand stress and external forces without breaking. Materials can use a multilayer structure, biaxial orientation or other additives to achieve the required strength - including tear resistance and puncture resistance.

Durability

For applications requiring long term outdoor use, extreme weather conditions or contact with harsh chemicals, durability is a key quality. Despite a paperlike appearance, films can have a durability similar to plastic and withstand moisture, high/low temperature, UV exposure, chlorine, acids and oils.

Printability

All films in the portfolio are designed for printing. Thermal transfer and line copy is predominant in tags, while 4-color process may also be required. Coatings and corona treatment can both be used to enhance the printability of films. The portfolio includes good to excellent print surfaces on matte and semi gloss facestocks.

Applications

- Tags
- · Lumber and brick (single and pallet load)
- Steel rebar
- · Nursery and plant identifier
- Outdoor furniture
- Lawn and garden equipment
- · Bag and luggage
- Chemical and warning labeling
- Sign and fencing
- Outdoor maps, guides and signage
- Sport and game licensing



Rapid-Roll[®] & Tyvek[®]

Unique physical properties make Tyvek versatile, recyclable and printable. It is strong, lightweight and opaque with high resistance to water chemical abrasion and aging. Tyvek is ideal for a broad range of applications requiring printing and converting. Recommended uses include tags for pallet and brick, carpet and furniture, loop around tags, wristbands and more. It is limited to applications not requiring stiffness.

• Tyvek Brillion - Whiter and more uniform in caliper than other Tyvek grades, providing excellent thermal transfer printing. Also available with a flame retardant coating.

Valéron uses a unique manufacturing process of extrusion, orientation, bias cutting and cross lamination, providing a tear resistant flexible film. Both Valéron® and V-MAX® films are weather resistant for one year outdoors and provide chemical resistance while accepting thermal transfer ribbons. These films have a very flexible structure, making them easy to perforate and ideal for industrial tags.

Rapid-Roll® & V-MAX® High density polyethylene films that maintain their properties even in harsh environments

Rapid-Roll® & Valéron® directions

Rapid-Roll[®] HS HDPE

High Strength (HS) HDPE is a two-sided, corona treated polyethylene designed for flexo and thermal transfer printing on both sides. It is a high density print grade polyethylene film that maintains its properties even in harsh environments, with an operation temperature range of -70F to +200 degrees F. This material is chemical resistant and will withstand UV exposure outdoors for one year. Recommended applications include tags for fence and lumber, tree and brick, plant and nursery, product ID, and water resistant and chemical resistant. HS HDPE films also work well in applications requiring sewing, stapling, grommeting and wire tying.

Rapid-Roll[®] & Polyart[®]

On the market for more than 40 years, Polyart is for printers seeking a reliable and high quality synthetic paper. Polyart is clay coated on both sides, providing excellent ink holdout and fast drying time. Key features include excellent water and chemical resistance and resistance to tearing in both directions. Applications involving frequent handling, humidity and outdoor use are a good match for Polyart.

Rapid-Roll[®] & Yupo[®]

Yupo synthetic paper is 100 percent recyclable, waterproof and tree-free. It has excellent surface uniformity and high opacity for two-sided printing. Ideal applications include tags for ID membership and nursery, insurance cards, and shelf talkers.



Rapid-Roll[®] & Valéron[®]/V-MAX[®]

· Uncoated grades are FDA acceptable for direct food.

· Coated grades enhance printability on both sides.

Cross laminated high density polyethylene provides outstanding strength and tear resistance in all

Rapid-Roll® & Polylith®

Polylith is a mineral enhanced calendered polypropylene with enhanced printability. The film is strong, durable, and moisture and chemical resistant, making it ideal for almost any application including nursery tags, shelf talkers, cards, signage and price marking. Polylith is recyclable.

- · GC-3 High tear resistance with excellent print aualitu.
- · GC-2 Excellent stiffness with excellent print quality. Can be rough on dies.

Rapid-Roll[®] & Smudgeproof Kimdura[®]

Smudgeproof Kimdura features a superior print surface with excellent surface uniformity and high opacity for two-sided printing. Kimdura is known for its consistency and resistance to chemicals and moisture. Ideal applications include tags for ID membership and nursery. insurance cards, and shelf talkers.

Product Information

| Product | Spec# - Product Description | Caliper - Test Method T411 | Tear Strength (Ibs) MD/CD | Tensile (lbs) MD/CD | Opacity | Sew or Perf | Max Web Process Temp | UV Resistance/ Outdoor Durability |
|---|---|-------------------------------|------------------------------|------------------------|---------|-------------------|-------------------------|--|
| Tyvek Spunbound HDPE compressed for durability and printability | 79108 - Fasson [®] Rapid-Roll [®] 1025DR Tyvek [®] 79109 - Fasson [®] Rapid-Roll [®] 1056DR Tyvek [®] 79110 - Fasson [®] Rapid-Roll [®] 8740D Tyvek [®] 79111 - Fasson [®] Rapid-Roll [®] 1073D Tyvek [®] 75723 - Fasson [®] Rapid-Roll [®] 1079 Tyvek [®] 75724 - Fasson [®] Rapid-Roll [®] 1085D Tyvek [®] | 6.3 | 1.2/1.1 elmendorf | 24.2/27.9 | 97% | Yes | -100°F to 175°F | 1-3 months |
| Tyvek Brillion Whiter, smoother option of spunbound HDPE nonwoven. Corona and anti-stat treated on both sides. Flame retardant | 79656 - Fasson® Rapid-Roll® 4173D Tyvek® Brillion® 6.1 Mil 79687 - Fasson® Rapid-Roll® 4173D Tyvek® Brillion® FR FR = meets FMVs 302 | 6.1 | 5.5/5.5 elmendorf | 47/51 | 96% | Yes | -100°F to 175°F | 1-3 months |
| Valeron Coated C2S print coated, cross laminated high strength polyethylene film - trademarked by VSF | 75728 - Fasson® Rapid-Roll® 7.5 Mil C2S Valeron® 75702 - Fasson® Rapid-Roll® 9.5 Mil C2S Valeron® | 7.5 | 13.4/13.4 graves | 42/45 | 64% | Staple/ Stitch | -70°F to 200°F | 1 Year |
| Valeron Uncoated Cross laminated high strength polyethylene film - trademarked by VSF | 75741 - Fasson® Rapid-Roll® 6.5 Mil Uncoated Valeron® 75759 - Fasson® Rapid-Roll® 8.6 Mil Uncoated Valeron® | 6.5 | 13.4/13.4 graves | 42/45 | 60% | Staple/ Stitch | -70°F to 200°F | 1 Year |
| V-MAX Coated (Select Plus) C1S and C2S single layer HDPE -trademarked by VS | 78004 - Fasson® Rapid-Roll® 7 Mil C2S V-Max Select Plus" 75929 - Fasson® Rapid-Roll® 10 Mil C2S V-Max Select Plus" | 7.0 | 6.8/6.0 graves | 27/28.5 | 72% | Perf/ Score | -70°F to 200°F | 1 Year |
| V-MAX Uncoated (Select) Corona treated 2 side single layer HDPE - trademarked by VSF | 76654 - Fasson® Rapid-Roll® 6.5 Mil V-Max® Select [™] 75947 - Fasson® Rapid-Roll® 7.5 Mil V-Max® Select[™] 75928 - Fasson® Rapid-Roll® 10 Mil V-Max® Select [™] | 7.5 | 7.6/6.6 graves | 30/33 | 70% | Perf/ Score | -70°F to 200°F | 1 Year |



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|---|--|-------------------------------|------------------------------|------------------------|---------|----------------|-------------------------|--|----------------------|-----------------------|--------------------------|--------------------|---------------------|----------------------------|---|---|---|---|
| HS HDPE Corona Treated 2 Side high strength HDPE | B0928 - Fasson Rapid-Roll 6 Mil HS HDPE B0930 - Fasson Rapid-Roll 7.5 Mil HS HDPE B0931 - Fasson Rapid-Roll 10 Mil HS HDPE | 7.5 | 1/4.3 elmendorf | 11.7 / 9.2 | 82% | Yes | -70°F to 200°F | 1 Year | Yes | Exceller | nt Excellen | t Excellent | Excellent | Excellent | Offset | Dimensional Stability and one option for all printing needs | | Industrial tags requiring outdoor an UV durability with excellent process printing and stiffnes requirements |
| Polylith GC-3 Two side matte finish polyypropylene that prints like paper with film strengthdurability | 78250 - Fasson® Rapid-Roll® 4 Mil Polylith® GC-3 78251 - Fasson® Rapid-Roll® 6 Mil Polylith® GC-3 78232 - Fasson® Rapid-Roll® 7 Mil Polylith® GC-3 78168 - Fasson® Rapid-Roll® 10 Mil Polylith® GC-3 | 7.0 | 9.9/15.4 elmendorf | 11.0/8.2 | 90% | Yes | -23°F to 212°F | 1 Year | Yes | Exceller | nt Good | Excellent | Excellent | Good | Not recommended for Jetrion | Excellent candidate for applications where durability, strength, moisture, chemical resistance and superior print quality is required | Exposure temp is less than 150F and avoid aqueous acidic solutions - may affect coating | Cards, banners, charts, menus, key and lumber tags, pri- marking, steel and re-bar tag |
| Polylith GC-2 Matte finish, calcium carbonate-filled and calendared polypropylene | 75822 - Fasson® Rapid-Roll® 6 Mil Polylith® GC-2 75735 - Fasson® Rapid-Roll® 8 Mil Polylith® GC-2 75736 - Fasson® Rapid-Roll® 10 Mil Polylith® GC-2 | 8.0 | 8.8/5.5 elmendorf | 8.8/5.5 | 91% | Yes | -23°F to 212°F | 1 Year | Yes | Exceller | nt Good | Excellent | Excellent | Good | lon Dep/Not recommended for Jetrion | UV stable 9-12 months. Water and chemical resistance. Even cross web caliper. Good opacity and printability | Abrasive to dies | Nursery tags, shelf talkers, cards, banners, signage an other hang tags |
| Polyart Matte C2S biaxially oriented HDPE | 77039 - Fasson® Rapid-Roll® 5.5 Mil Polyart® 77038 - Fasson® Rapid-Roll® 7 Mil Polyart® 77040 - Fasson® Rapid-Roll® 8.5 Mil Polyart® 77041 - Fasson® Rapid-Roll® 10 Mil Polyart® | 7.0 | 3.2/4.25 elmendorf | 8.8/10.2 | 97% | Yes | -10°F to 120°F | 1.5 Years | No | Exceller | Fair/ nt Good | Excellent | Excellent | Excellent | Dot matrix/ Ion Dep/ UV inkjet* | Good strength and opacity for two side printing. Resistant to oils and chemicals, can be die cut, perfed, sheeted, scored and guillotined. Recyclable in 2HDPE | Dimensional stability- press and design dependent | Chemical resistant tags, nursery tags |
| Smudgeproof Kimdura Smudgeproof coated multilayer biaxially- oriented - filled polypropylene | 16801 – Fasson® Rapid–Roll® 8 Mil C1S Smudgeproof Kimdura® | 8.0 | 24/.11 elmendorf | 54.1/ 160.4 | 98.5% | Perf/ Score | 25°F to 170°F | 1 Year | No | Exceller | nt Excellent | Excellent | Excellent | Excellent | Dot matrix/lon Dep/ UV Inkjet* | Superior print surface, excellent surface uniformity and high opacity for two side printing | Becomes brittle at subzero temperatures | ID membership tags insurance cards, ret product tags, shelf talkers, nursery tags |
| Yupo Multi-layer biaxially- oriented - filled polypropylene | 76786 - Fasson® Rapid-Roll® 8 Mil FPG 200 YUPO® 76785 - Fasson® Rapid-Roll® 10 Mil FPG 250 YUPO® | 8.0 | 24/.11 elmendorf | 61.5/164 | 98% | Perf/ Score | 25°F to 170°F | 1 Year | Yes | Exceller | nt Excellent | Excellent | Fair | Fair | Offset | Excellent surface uniformity and high opacity for two side printing | Becomes brittle at subzero temperatures | ID membership tags insurance cards, ret product tags, shelf talkers, nursery tags |



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