



3 Sigma Corporation

Industry Specific Constructions

Hot Melt
Solvent
Emulsion

Permanent
Removable
Repositionable

About 3 Sigma

Established in 1980, 3 Sigma is a fast-growing innovator of pressure sensitive adhesive coated products.

3 Sigma uses its solvent, emulsion and hot melt technology expertise to produce specialty or complex adhesive constructions at our facility in Troy, Ohio.

Our flexibility, creativity, market experience and unique product commercialization approach enables us to create higher margin, innovative products for our customers, helping them to capture market opportunities, reduce waste and production costs, and increase output.



Serving Multiple Industries

Our solvent, emulsion, hot melt chemistry and manufacturing capabilities are utilized every day to create innovative products for various industries.

3 Sigma has a strong industry reputation for designing and manufacturing products that address unique end-use applications and complex technical constructions across a number of industries and markets such as:

- Food & Beverage Packaging
- Business Forms
- Repositionable & Microsphere
- Security
- Industrial
- Health and Beauty
- Medical and Pharmaceuticals



Industry Specific Constructions

“We were able to capture new business due to the unique capabilities that 3 Sigma provides”

- From 2008 ISO Customer Survey

Adding Value

By partnering with converters to carefully understand the performance and usage desired for a finished product we establish the appropriate combination of chemistry and materials to meet the requirements and specifications of our customers and brand owners.

Through our engagement process we gain a deep understanding of our customer's converting processes, enabling us to help address issues with print quality, die cutting, matrix stripping and label or product application methods.

We experiment with new materials, develop new processes, modify equipment and adhesives or top coats to help customers and brand owners to achieve their goal.



Select Brand Owners

Below is a partial list of select brand owners 3 Sigma has developed products for:

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|------------------|-----------------------|
| EcoLab | Ralph Lauren |
| Dell | Target |
| Motorola | HP |
| P&G | Walmart |
| Delta | GM |
| Holiday Inn | Corporate Express |
| Avery | Norwegian Cruise Line |
| 3M | RIM |
| Russell Stover | Tiffany |
| American Express | NFL |

Food, Beverage & Packaging Products

We offer an extensive line of proprietary [products for coupons](#), point-of-purchase materials and package re-closure. We also have the capability to design any type of specialty or custom product you might require. Our coupon base product is widely recognized throughout the industry as one of the highest performing, most consistent constructions available.

We offer multiple designs that provide a universal lift edge with easy release and no adhesive residue. Our trademarked [AnchorSeal®/Lift & Lock](#) products also come in multiple design configurations and are a convenient and cost-effective alternative to zip-lock type closures.

Products	Applications
<ul style="list-style-type: none"> • Circle coupon • Wavy coupon • AnchorSeal • Extend-a-Seal • Signature • Breakaway films • Sigma-Scan • Direct food contact adhesives • All Temp & freezer grade adhesives. 	<ul style="list-style-type: none"> • Coupons • Package re-closure • Wine labels • Beverage/Bottle labels • Shelf marking • Specialty prime labels • Fluorescent price marking • Nursery, fruit and vegetable labels

Business Form Products

We can supply a wide variety of materials to assist in the processing and production of business forms and direct mail pieces. Our Signature line is one of our most popular products due to its split-able film design, providing ease-of-release and clean removal with no adhesive residue.

Signature offers a smudge-free writeable backside surface for card signatures. We can help you with the design and development of almost any type of form product you require.

Products	Applications
<ul style="list-style-type: none"> • Integrated cards • Affixed cards • Integrated labels • Affixed labels • Magnetic materials • Overlaminates • Label maker (transfer tape) • Integrated coupons • Affixed coupons 	<ul style="list-style-type: none"> • A wide variety of business forms and direct mail

Microsphere and Repositionable

As a market leader for direct mail and newspaper advertising labels, 3 Sigma has developed numerous products that function as a repositionable device. The expertise we gained in the early growth of MailLabels™ and NewsLabels™ allowed us to design and formulate adhesives for multiple substrate and material combinations.

We offer one of the most comprehensive lines of [repositionable adhesives](#) in the industry. 3 Sigma is one of just a small number of companies approved by the U.S. Postal Service as a supplier of materials affixed to either the inside or outside of mail pieces.

Products/Applications	Benefits
<ul style="list-style-type: none"> • MailLabels (direct mail, magazines) • NewsLabels (newspapers, circulars) • Wall graphics • Temporary signage • Temporary/Portable video screens • Page flags 	<ul style="list-style-type: none"> • Multiple materials and colors offered • Durability for high speed machine application • Ability to remove and reapply multiple times with no surface damage • No residue or adhesive transfer • No ghosting on clear or frosted products

Product Identification and Security

3 Sigma can provide you with a variety of options for brand protection, product security and tamper evidence. Product counterfeiting and theft results in the loss of billions of dollars annually for many industries. Our engineering team has designed numerous solutions to fit unique brand owner requirements.

Our solutions range from relatively simple items such as destructible films and papers to more complex products like pigment or taggant modified adhesives.

Products	Applications
<ul style="list-style-type: none"> • Tamper evident tapes • Split-able PolyArt™ • Destructible acetate • Taggant modified adhesives • Pigment modified adhesives • Blockout coatings • RFID label stock • Specialized paper and film stocks 	<ul style="list-style-type: none"> • Covert or overt labels • Warranty validation • “Sealed until use” requirements • Evidence of tampering or substituting • Protection of vital information • Theft protection • Counterfeit protection

Industrial and Technical Products

We have a solid history of developing long lasting, durable constructions for various industries using emulsion and hot-melt adhesive products.

More recently, our solvent adhesive products allow labels or other constructions to operate in and withstand the harshest environments.

Products/Applications	Environmental Conditions	Technology Available
<ul style="list-style-type: none"> • Tire labels • Drum labels • Pipe & conduit labels • HVAC tags and labels • Automotive applications • Outdoor power equipment • Transfer and specialty tapes 	<ul style="list-style-type: none"> • High heat • High humidity or moisture • Exposure to grease or oil • Exposure to solvents • UV exposure 	<ul style="list-style-type: none"> • Multiple adhesive technologies • Multiple coating technologies • Dual adhesives on same web • Dual facestocks on same web • Tight pattern tolerances • Pigmented adhesives • Multi-Layer (piggyback) constructions. • UL/CA, RoHS, WEEE compliance if required

Medical, Pharmaceutical, Health and Beauty Products

Our experience in designing unique constructions for these demanding markets has resulted in specialized tapes, security products, multi-layered labels, specialized forms, signature tabs and many other products.

With the addition of our solvent adhesive and manufacturing capability, we can now offer even higher performing constructions for chemical, oil or lotion applications requiring the adhesive to perform under adverse conditions or where excellent label clarity is required.

Products/Applications	Benefits/Features
<ul style="list-style-type: none"> • Squeezable/Conformable BOPP • Clear on clear labels • Autoclave labels • Specialty tapes • Booklet or brochure format labels • Medical instrument labels • Signature tabs • Medical or insurance form cards 	<ul style="list-style-type: none"> • Multiple adhesive technology • Brand security technology • Durability and long life • Tight pattern tolerance for exacting specifications • Rapid turnaround for rush situations



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