Electrical Markets
3M™ Nonwoven Fabrics

Nonwoven Technology
Proven Functionality, Endless Adaptability
Since its inception in the 1950s, 3M’s nonwoven technology has gone on to revolutionize the fabric industry. Nonwovens’ far-ranging adaptability can be used in an ever-growing variety of applications, most commonly in water and dairy filtration systems.

**History of Innovation**
Throughout our history, 3M’s spirit and ability to innovate has been the hallmark of all our products. 3M has been on the leading edge of nonwoven technology since first discovering a unique process for binding fibers together in the 1940s, with our products endlessly adapted by different manufacturers. After first coming to market successfully as 3M Sasheen decorative ribbons, the nonwoven family tree has grown to include adhesive, solar, filtration, converter, paper, printing, medical supplies, wipes, abrasives, insulations and absorbents.

3M’s nonwoven films have very low cross web and machine web variability, which is critical for consistent dielectric performance results.

**Proven Performance:**
3M’s nonwovens offer unique product benefits and customization in every industry to which they’re applied.

- **Composite Laminates**
  3M’s consistent cross and machine film strength is key to the functionality of electrical applications.
  - Nonwoven laminates work well as electrical barriers
  - Carriers/separator are applicable as release liners during processing

- **Electrical Insulation**
  3M’s nonwoven films are used as a core component in water, dairy, air and chemical filtration systems.
  - Densification minimizes residual fibers
  - Fully customizable options

- **Filtration**
  3M’s thermally-bonded nonwoven materials are used as a core component in water, dairy, air and chemical filtration systems.
  - Fully customizable options

- **Calendering and Laminating Services**
  3M is unique in offering stand-alone calendering and laminating services with steel and felt calendering rolls, from 2,000 pli and 500 F up to 2 meters wide.
  - Multi-layer laminating: run as many as 5 layers to 1 layer output
  - Inline process and adaptability to customer requirements
  - Slitting services customizable to customers’ roll lengths and widths
  - Can return and drop ship
  - In-house R&D and customer service
  - Short lead times

The capabilities of our state-of-the-art factory allow us to customize nonwoven constructions to meet and adapt to customer specifications. All of our nonwoven products are made in the USA with the proven quality, reliability and innovation you expect from 3M.

**Unique Benefits of 3M Nonwovens**
3M’s nonwovens’ remarkable versatility stems from the material’s long list of useful properties. Their resilience and semi-permeability make them a core component in many filtration systems. 3M nonwovens are made with superior strength and dielectric performance, making them ideal as electrical insulators in machines of all sizes. Additionally, our unparalleled customization capabilities mean the fabric can be manufactured to either absorb or repel liquids, is soft and stretchy, flame-retardant, washable, recyclable and works as a bacterial barrier.

These properties make 3M nonwoven fabrics essential components in a wide array of industries.
Important Notice

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture at the time of purchase. 3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M’s option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.