

# AEROVAC

COMPOSITES ONE



## PROCESS MATERIALS



**Innovative. Dependable. Results.**

**Welcome to Aerovac**, a major manufacturer, developer and supplier of process materials, tooling and services used in prepreg processing, vacuum infusion, glass lamination, and other industrial applications. As part of Composites One, North America's leading distributor of composites, we're uniquely positioned to provide customers with next-gen product and supply chain innovations that are stored locally, priced competitively, delivered on-time, every time, and supported by more than 100 technical product experts worldwide.

**Innovative. Dependable. Results. That's Aerovac. The better way of doing business.**

### VACUUM BAGGING AND CONSUMABLES

Operating from facilities in Europe, North and South America, Aerovac develops, manufactures and supplies innovative process materials to the composites industry. We're focused on vacuum bagging consumables, infusion materials and reusable vacuum systems used in prepreg processing, resin infusion, hand layup, filament winding, compression molding of thermoplastic composites and glass lamination. Products include:

#### Vacuum Bagging Film

- Industry-leading VACFILM™, STRETCH-VAC™, VAC-PAK, QUICKDRAW and POLYFILM™ products
- Specially designed for debulking, wet lay-up, infusion, complex tooling geometry, high temperatures
- Ideal for Aerospace, Wind Energy and Marine applications
- Extruded and co-extruded multi-layered plastic films up to 18 layers thick
- Custom films also available to meet specific requirements

#### Breather Fabric

- Polyester, nylon and E-glass breather products for both surface and edge breathing
- Breather areal weights from 85 gsm to greater than 650 gsm

- Available in standard roll formats, slit widths, cut shapes, 3D stitched formats; variety of weights
- Can also be tailored to customer requirements

#### Combination Products

- Unique product combinations can be manufactured to suit almost any need
- Simplifies ordering, reduces material inventory
- Saves time during consumable layup and post-cure extraction

#### Peel Ply

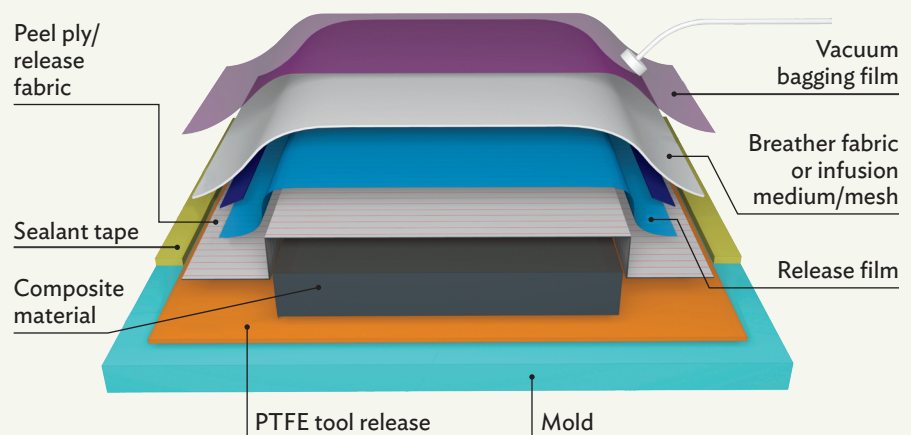
- Available in light to heavyweight nylon and polyester woven fabrics
- Slitting available in a range of widths and all edges are sealed to prevent FOD
- Some available with adhesive backing for easier application

#### Release Fabrics

- Light to heavyweight woven fabrics in nylon, glass and polyester
- With silicone, fluorocarbon and PTFE coatings meeting resin system and cure temperature requirements
- Slitting available in a range of widths and all edges are sealed to prevent FOD

#### Sealant Tape

- Comprehensive range of tapes for challenging manufacturing environments
- Specially formulated for temperatures ranging from ambient cures to high temperature thermoplastic cures up to 752°F (400°C)
- Variety of weights





**Multiple AS9120, AS9100, EN9100 & ISO 9001 certified locations**



**Aerospace, Wind Energy, Marine, Glass Lamination and other Industrial Sectors**



**Product selection and technical application experts located around the world**

#### **Release Film**

- Specially formulated for variety of applications
- Can be slit to width, cut to shape and/or welded into complex 3D shapes
- Perforations done in-house, ensuring highest quality of traditional pin-prick, hot needle and punched designs in wide range of patterns

#### **Flow Media**

- Knitted and extruded diamond infusion mesh
- For single curvature and complex tooling geometry

#### **Adhesive Tape**

- Pressure sensitive tapes specially formulated for high temperatures
- Ideal for removal of resin flash, localized release and positioning of consumable material
- Available in polyester, nylon, PTFE and polyimide

#### **Tapes and Sprays**

- Double-sided tapes and adhesive sprays
- Used for securing dry fabrics and core materials during infusion layup

#### **Self-Adhesive Tool Release**

- Semi-permanent, self-adhesive PTFE-based materials
- Eliminates need to reapply chemical release agents after every cure, saving time
- Can also solve tool porosity issues and prolong tool life

- Available unsupported or glass resin forced, silicone and acrylic adhesive
- Premium grades available

#### **Infusion Products**

- Specially designed to transport liquid resin from barrel into sealed system
- Evenly distributes resin under vacuum bag and restricts resin flow
- Helps protect vacuum hoses and pumps, control volume of resin pulled into part and offer reusable and disposable methods of resin distribution
- Products range from low-cost disposable plastic inlet ports and T-piece connectors to flow meshes, breather membranes, reusable resin channels and advanced spray adhesives

#### **Kitting Service**

By purchasing Aerovac Process Material kits, you can:

- Cut material waste by an average of 40%, lowering costs
- Operator motion is reduced due to assembly-line stock and storage, with less margin for error as the vacuum bagging process is deskilled
- Increase productivity, standardize work for better quality laminates, provide health and safety benefits through reduced material handling

Learn more at [aerovac.com](http://aerovac.com).

#### **Vacuum Hoses and Ancillaries**

- Wide range of products meeting workshop, oven and autoclave vacuum requirements
- Vacuum hoses constructed on site with different color options, materials, use temperatures and termination connectors
- Vacuum breach units, plug and socket couplings, gauges, manifolds and other ancillaries also available

#### **Rubber, Silicone and Fluoroelastomers**

- Excellent resin compatibility, high elongation and good tear strength characteristics
- Ideal for making reusable vacuum bags, B-surface caul plates, intensifiers or pressure pads
- Sold in sheets for independent fabrication
- Silicones and molded pieces available for resin transfer molding, resin transfer injection, liquid resin infusion and vacuum bonding/laminating

#### **Miscellaneous**

- Wide range of rubber silicone and latex, vacuum fittings and hoses, infusion materials and accessories
- Other products for composites manufacturing including cutting, molding and pre-forming products, thermocouples and specialized leak detectors

## THE NEW AEROVAC

### **Our Mission:**

To enable customer success by serving as their complete vacuum bagging and process materials solution.

### **Our Promise:**

Innovative  
Dependable  
Results

Aerovac makes it easy for customers to source product, identify the right supply chain solutions, and efficiently utilize high quality process materials. So you can focus on engineering end-products, growing revenue, and delivering results. Aerovac. It's the better way of doing business.

### **Focused on Innovation**

At Aerovac, innovation is at the heart of everything we do. It starts with listening to customers so we can understand their needs, and apply the right technologies and services to deliver proven results.

### **Focused Expertise**

Aerovac's approach is to put the customer first. We listen. We advise. And then we respond, with innovative products custom formulated to meet each customer's requirements, setting us apart from the competition.

## **The Aerovac Difference**



**Global  
Footprint**



**Dependable  
Service**



**Experienced  
Technical Support**

**AEROVAC**  
COMPOSITES ONE

**AEROVAC.COM**

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