

***FLASHSORB***

**Excess Flash Absorbent Composite**

**DESCRIPTION:**

**FLASHSORB** is a high temperature (400°F / 205°C) material suitable for most adhesive bond and co-cure assembly applications. **FLASHSORB** is a composite of Richmond's peel-ply, breather/bleeder and release film. Flash-sorb is custom constructed to the customers needs and is normally used in 2 inch to 6 inch wide tapes however, wide width **FLASHSORB** is available.

**APPLICATION:**

**FLASHSORB** is a multi-layered composite material designed to absorb excess adhesive/resin flash from flash line areas or assemblies and when stripped, leaves a virtually "clean-up free" flash line area.

**CONSTRUCTION:**

All **FLASHSORB** is custom made to customers needs. **FLASHSORB** ordering as follows:

(Example)	<b>61</b>	<b>07</b>	<b>E</b>	<b>6</b>	<b>15</b>
	Peel-Ply	Breather	Release Film	Width in Inch	Length in Feet

**MATERIAL IDENTIFIERS:**

**Peel Plies:**           **59** = 51789  
                               **61** = 60001  
                               **62** =60002

**Breather:**           **04** = A3000 4  
                               **07** = A3000 7  
                               **10** = RC-3000-10  
                               **10B** = RC-3000-10B  
                               **02** = 4819

**Release film:**       **E** = E3760 or **EP** = E3760 perforated  
                               **A** = A5000 or **AP** = A5000 perforated  
                               **E4** = E4760 or **E4P** = E4760 perforated  
                               **A6** = A6200 or **A6P** = A6200 perforated

**NOTE:** DATA PROVIDED IS FOR INFORMATION ONLY AND DOES NOT CONSTITUTE ANY WARRANTY FOR THE PRODUCT. AS THE CONDITIONS AND VARYING METHODS OF USE ARE BEYOND OUR CONTROL, RICHMOND AIRCRAFT PRODUCTS, INC. SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR LOST PROFITS, WHICH MAY RESULT FROM THE USE, OR INABILITY TO USE THESE MATERIALS. THESE MATERIALS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

***T. S. B. SYSTEM***  
**(Tool Surface Breathing)**

**DESCRIPTION:**

**T.S.B.** is a high temperature (400°F / 205°C) material, suitable for use with most adhesive and resin systems, used in the manufacture of fabric reinforced plastic (FRP) laminates or co-curing of FRP sandwich construction assemblies in a single stage.

**T.S.B.** is a product consisting of a specially designed breather/bleeder and a vapor permeable release film.

**T.S.B.** can be furnished in roll form or custom constructed to meet the customers needs.

**APPLICATION:**

**T.S.B.** is designed to provide a passage for volatiles and gases generated during the curing of the laminates to escape from the tool surface of the assembly. This results in producing an improved porosity free surface, suitable for finishing. Reduces needs for additional glazing and filling needed to produce a cosmetically acceptable surface.

**CONSTRUCTION:**

All **T.S.B.** is custom-made to customers needs. Order as follows:

(Example)	<b>5819</b>	<b>T</b>	<b>54</b>	<b>12</b>
	Breather	Vapor Permeable Release Film	Width in Inches	Length in Feet

**MATERIAL IDENTIFIERS:**

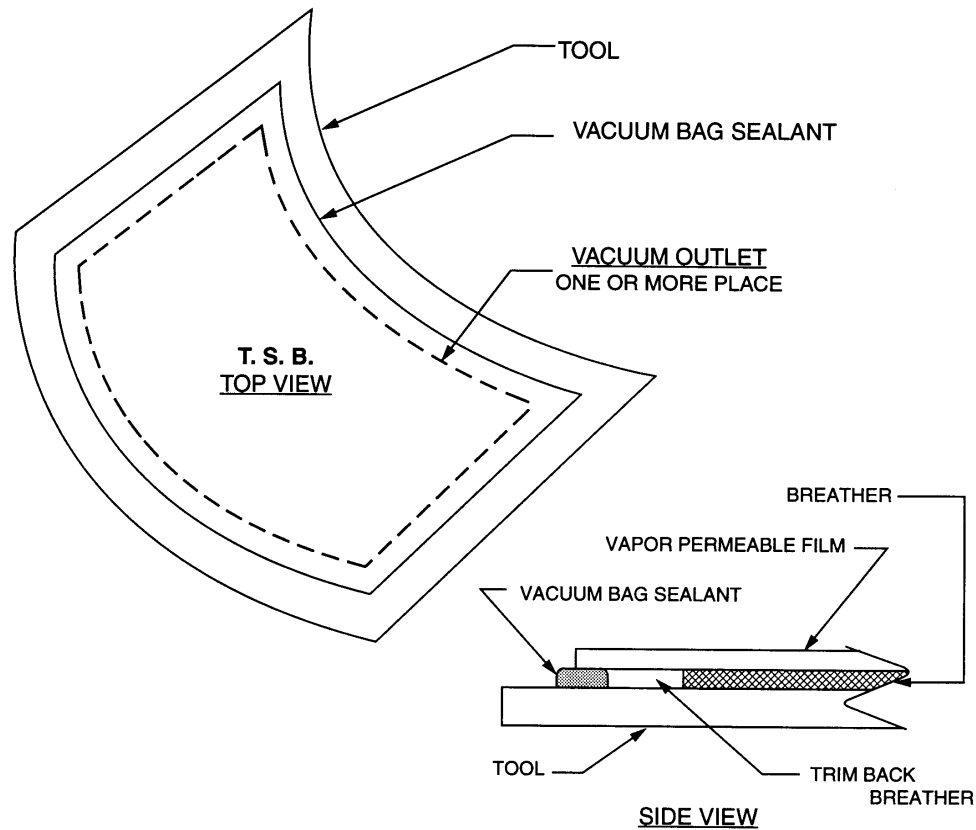
**Breather: Code 5819**

**Vapor permeable release film:**  
**T** - E3760  
**P** - E4760  
**F** - A5000  
**A** - A6200

**Other combinations are available**

**NOTE:** DATA PROVIDED IS FOR INFORMATION ONLY AND DOES NOT CONSTITUTE ANY WARRANTY FOR THE PRODUCT. AS THE CONDITIONS AND VARYING METHODS OF USE ARE BEYOND OUR CONTROL, RICHMOND AIRCRAFT PRODUCTS, INC. SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR LOST PROFITS, WHICH MAY RESULT FROM THE USE, OR INABILITY TO USE THESE MATERIALS. THESE MATERIALS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

***T. S. B. SYSTEM APPLICATIONS***



**STEPS**

1. Place vacuum bag sealant around periphery of tool (outside edge of laminate).
2. Locate and seal edge of vapor permeable film to sealant. Stretch film slightly, so that when vacuum is applied, the T.S.B. will conform to the tool surface (some hand forming may be required to remove any wrinkles that may form).
3. Insert vacuum probe, apply vacuum.
4. Perform lay up procedures in normal manner (do not cut on bag surface).

**NOTE:** DATA PROVIDED IS FOR INFORMATION ONLY AND DOES NOT CONSTITUTE ANY WARRANTY FOR THE PRODUCT. AS THE CONDITIONS AND VARYING METHODS OF USE ARE BEYOND OUR CONTROL, RICHMOND AIRCRAFT PRODUCTS, INC. SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR LOST PROFITS, WHICH MAY RESULT FROM THE USE, OR INABILITY TO USE THESE MATERIALS. THESE MATERIALS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

## ***PRE-FABRICATED VAC-PAK<sup>®</sup> BAGS AND ASSEMBLIES***

### **Custom Bags for Complex Assemblies**

**Richmond Aircraft Products Inc.** is the industry leader in the manufacture of pre-fabricated vacuum bags or sheets of any shape or size. We can fabricate the bag to customer's specification and can also provide engineering to design a bag for the customer.

With the demand for larger composite structures and metal bonded assemblies, the use of pre-fabricated, pre-shaped vacuum bags become more essential to the vacuum bagging process. Richmond Aircraft Products Inc. has developed new technologies to laminate multiple components of vacuum bagging process materials (i.e. Release Film, Breather and Bag film) into one assembly. This allows the customer to simply un-roll the vacuum bag assembly then simply sealant tape the edges to the tool eliminating many single step operations.

**Richmond Aircraft Products Inc.** has the finest state-of-art equipment and many years of expertise in the manufacture of prefabricated bags.

**NOTE:** DATA PROVIDED IS FOR INFORMATION ONLY AND DOES NOT CONSTITUTE ANY WARRANTY FOR THE PRODUCT. AS THE CONDITIONS AND VARYING METHODS OF USE ARE BEYOND OUR CONTROL, RICHMOND AIRCRAFT PRODUCTS, INC. SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR LOST PROFITS, WHICH MAY RESULT FROM THE USE, OR INABILITY TO USE THESE MATERIALS. THESE MATERIALS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

## ***SEWN CONSTRUCTION BLANKETS***

### **Dedicated Insulation and Breather Blankets**

#### **DESCRIPTION:**

**RICHMOND AIRCRAFT PRODUCTS** can fabricate blankets for internal or external use on bagged assemblies. These blankets are intended to provide insulation and/or breathing for the assembly being manufactured.

A variety of materials can be used in the fabrication of the blankets including release treated covers to prevent adherence of the blanket to the resin from the assembly.

**NOTE:** DATA PROVIDED IS FOR INFORMATION ONLY AND DOES NOT CONSTITUTE ANY WARRANTY FOR THE PRODUCT. AS THE CONDITIONS AND VARYING METHODS OF USE ARE BEYOND OUR CONTROL, RICHMOND AIRCRAFT PRODUCTS, INC. SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR LOST PROFITS, WHICH MAY RESULT FROM THE USE, OR INABILITY TO USE THESE MATERIALS. THESE MATERIALS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.