

33155 CAMINO CAPISTRANO • UNIT C • SAN JUAN CAPISTRANO, CA 92675 PHONE: (949) 240-6353 • FAX: (949) 248-5655

#### **AIR FLO NA2B** BONDED LIGHT WEIGHT BREATHER AND BLEEDER

#### DESCRIPTION

Air Flo NA2B is a synthetic fiber that is ideal as a breather and bleeder in low-pressure lay-ups. Air Flo NA2B has been used successfully on flat panel applications. More than one ply may be required to fit specific processing needs. It is designed to operate exceptionally in cure cycles up to 400 DEG F. NA1000 or NA1000P release films should be used, as Air Flo NA2B is not a release material.

#### PHYSICAL PROPERTIES:

Fiber

100% Polyester

Carrier

PVA

Weight, Oz/Sqyd

2.2 oz to 2.5 oz per square yard

Thickness, inches 9 mil

Max use temp

400 DEG F

#### **PACKAGING**

Standard roll size:

56"x150 yards



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#### AIR FLO NA2R LIGHT WEIGHT BREATHER AND BLEEDER

#### DESCRIPTION

Air Flo NA2R is a synthetic fiber that is ideal as a breather and bleeder in low-pressure lay-ups. Air Flo NA2R has been used successfully on many flat pane applications. More than one ply may be required to fit specific processing needs. It is designed to operate exceptionally in cure cycles up to 400 DEG F. NA 1000 or NA1000P release films should be used as Air Flo NA2R is not a release material.

#### PHYSICAL PROPERTIES:

Fiber

100% Polyester

Weight, Oz/Sqyd

2.2 oz to 2.5 oz per square yard

Thickness, inches

9 mil

Max use temp

400 DEG F

#### **PACKAGING**

Standard roll size:

56"x150 yards

54"x100 yards



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#### AIR FLO NA2 LIGHT WEIGHT BREATHER AND BLEEDER

#### **DESCRIPTION**

Air Flo NA 2 is a synthetic fiber that is ideal as a breather and bleeder in low-pressure lay-ups. Air Flo NA 2 has been used successfully on many flat pane applications. More than one ply may be required to fit specific processing needs. It is designed to operate exceptionally in cure cycles up to 400 DEG F. NA 1000 or NA1000P release films should be used as Air Flo NA 2 is not a release material.

#### PHYSICAL PROPERTIES:

Fiber

100% Polyester

Weight, Oz/Sqyd

2.2 oz to 2.5 oz per square yard

Thickness, inches

9 mil

Max use temp

400 DEG F

#### **PACKAGING**

Standard roll size:

56"x150 yards

54"x100 yards



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## AIR FLO NA4 COMPOSITE BREATHER, RESIN BLEEDER

#### DESCRIPTION

Air Flo NA 4 is a 4 ounce breather material made from organic fiber that is lightweight, and stretchable. Thus, it conforms to part and assembly contours and allows maximum volatile and air flow during vacuum bag composite processing. Air Flo NA 4 may require more than one ply to fit specific processing needs. It is designed to operate at temperatures up to 400 DEG F and 50 psi. Air Flo NA 4 can be used as a resin bleeder for high resin content materials as well. In either breather or bleeder applications, NA 1000 or NA 1000 P release films should be used as Air Flo NA 4 is not a release material.

#### PHYSICAL PROPERTIES

Maximum use temperature

400 DEG F

Weight, oz/sqyd

1/8

Thickness, inches Organic fiber

polyester

#### **PACKAGING**

Standard roll size

60"x100 yds

Wider widths are available upon request

Slitting of master rolls to any width is available upon request.



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## AIR FLO NA7 COMPOSITE BREATHER, RESIN BLEEDER

#### **DESCRIPTION**

Air Flo NA 7 is a 7 ounce breather material made from organic fiber that is lightweight, and stretchable. Thus, it conforms to part and assembly contours and allows maximum volatile and air flow during vacuum bag composite processing. Air Flo NA 7 may require more than one ply to fit specific processing needs. It is designed to operate at temperatures up to 400 DEG F and 50 psi. Air Flo NA 7 can be used as a resin bleeder for high resin content materials as well. In either breather or bleeder applications, NA 1000 or NA 1000 P release films should be used as Air Flo NA 7 is not a release material.

#### PHYSICAL PROPERTIES

Maximum use temperature

400 DEG F

Weight, oz/sqyd Thickness, inches 7 1/4

Organic fiber

polyester

#### **PACKAGING**

Standard roll size

60"x100 yds

Wider widths are available upon request

Slitting of master rolls to any width is available upon request.



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## AIR FLO NA10 COMPOSITE BREATHER, RESIN BLEEDER

#### **DESCRIPTION**

Air Flo NA 10 is a 10 ounce breather material made from organic fiber that is lightweight and stretchable. Thus, it conforms to part and assembly contours and allows maximum volatile and air flow during vacuum bag composite processing. Air flo NA 10 is thicker and heavier than Air Flo NA 4 so that multiple layers may not be necessary during lay-up. It is designed to operate at temperatures up to 400 DEG F and 100 psi. Air Flo NA 10 can be used as a resin bleeder for high resin content materials as well. In either breather or bleeder applications, NA 1000 or NA 1000 P release films should be used as Air Flo NA 10 is not a release material.

#### PHYSICAL PROPERTIES

Maximum use temperature

400 DEG F

Weight, oz/sqyd Thickness, inches 10 3/8

Organic fiber

polyester

#### **PACKAGING**

Standard roll size

60 in x 50 yards

Wider widths are available upon request.

Slitting of master rolls to any width is available upon request.



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# AIR FLO NA20 COMPOSITE BREATHER, RESIN BLEEDER

#### **DESCRIPTION**

Air Flo NA20 is a 20-ounce breather material made from organic fiber that is lightweight and stretchable. Thus, it conforms to part and assembly contours and allows maximum volatile and airflow during vacuum bag composite processing. Air Flo NA20 is thicker than Air Flo NA10 so that multiple layers may not be necessary during lay-up. It is designed to operate at temperatures up to 400 DEG F and 100 psi. Air Flo NA20 can be used as a resin bleeder for high resin content materials as well. In breather or bleeder applications, NA 1000 or NA 1000P release films should be used, as Air Flo NA20 is not a release material.

#### PHYSICAL PROPERTIES

Maximum use temperature

400 DEG F

Weight, oz/sqyd

20

Thickness, inches

1/2 polyester

#### **PACKAGING**

Organic fiber

Standard roll size

60 in x 25 yards

Wider widths are available upon request.

Slitting of master rolls to any width is available upon request.



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## AIR FLO WAFFLEWEAVE COMPOSITE BREATHER, RESIN BLEEDER

#### **DESCRIPTION**

Air Flo WAFFLEWEAVE is a lightweight, stretchable bleeder / breather material made from synthetic fibers. Thus, it conforms to part and assembly contours allowing excess resin bleed and maximum volatile and flow during vacuum bag composite processing. The Air Flo WAFFLEWEAVE mesh pattern provides for maximum air and volatile flow as well as clear path for drawing excess resin on prepreg and wet lay-up parts. More than one ply may be required to fit specific processing needs. It is designed to operate exceptionally in cure cycles up to 350 DEG F and 50 PSI. In either breather or resin bleeder applications, NA 1000 or NA 1000 P release films should be used as Air Flo WAFFLEWEAVE is not a release material.

#### PHYSICAL PROPERTIES

Maximum use temperature

**400 DEG F** 

Weight, oz/sqyd

3-3.5

Thickness, inches

.016

#### **PACKAGING**

Standard roll size

64"x250 yds

Slitting of master rolls to any width is available upon request.



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### ULTRA FLO 1000 HIGH TEMPERATURE AND PRESSURE NYLON BREATHER

#### DESCRIPTION

Ultra Flo 1000 is a 13 ounce breather material made from high temperature resistant nylon fiber that is lightweight, stretchable and low-cost. It conforms to complex part and assembly shapes and outperforms polyester breathers in composites processing. Trapping off air and volatile flow during high temperature-high pressure cure cycles is a thing of the past with Ultra Flo 1000. The nylon fibers in non-woven mat form do not soften and compact like polyester as the softening point of nylon is 475 DEG F. Cure temperatures up to 450 DEG F and pressures exceeding 100 psi are possible without the use of fiberglass or metal chain paths for conducting volatiles away from laminates. Fewer layers of Ultra Flo 1000 are required thus making it an economical breather choice. Reuse is possible for multiple cure cycles on net or low flow resin systems. NA 1000 or NA 1000P release films should be used as Ultra Flow 1000 is not a release material.

#### PHYSICAL PROPERTIES

Weight, oz/sqyd

13

Denier

30

Thickness, inches

.375

Use temperature

450 DEG F max

Softening temperature

475 DEG F

#### **PACKAGING**

Standard roll sizes:

60 in x 50 yards

Wider widths are available upon request.

Slitting of master rolls to any width is available upon request.



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### ULTRA FLO 2000 HIGH TEMPERATURE AND PRESSURE NYLON BREATHER

#### **DESCRIPTION**

Ultra Flo 2000 is a 13 ounce breather material made from high temperature resistant nylon fiber that is lightweight and stretchable. It conforms to complex part and assembly shapes and outperforms polyester breathers in composites processing. Trapping off air and volatile flow during high temperature-high pressure cure cycles is a thing of the past with Ultra Flo 2000. The nylon fibers in non-woven mat form do not soften and compact like polyester as the softening point of nylon is 475 DEG F. Cure temperatures up to 450 DEG F and pressures exceeding 100 psi are possible without the use of fiberglass or metal chain paths for conducting volatiles away from laminates. Fewer layers of Ultra Flo 2000 are required thus making it an economical breather choice. Reuse if possible for multiple cure cycles on net or low flow resin systems. NA 1000 or NA 1000P release films should be used as Ultra Flo 2000 is not a release material. Ultra Flo 2000 is a tighter weave construction than Ultra Flo 1000.

#### PHYSICAL PROPERTIES

Weight, oz/sqyd

13

Denier

32

Thickness, inches

.375

Use Temperature

450 DEG F max

Softening temperature

**450 DEG F** 

#### **PACKAGING**

Standard roll sizes:

60 in x 50 yards

Wider widths are available upon request.

Slitting of master rolls to any width is available upon request.



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### ULTRA FLO 3000 HIGH TEMPERATURE AND PRESSURE NYLON BREATHER

#### **DESCRIPTION**

Ultra Flo 3000 is a 10 ounce breather material made from high temperature resistant nylon fiber that is lightweight and stretchable. It conforms to complex part and assembly shapes and outperforms polyester breathers in composites processing. Trapping off air and volatile flow during high temperature-high pressure cure cycles is a thing of the past with Ultra Flo 3000. The nylon fibers in non-woven mat form do not soften and compact like polyester as the softening point of nylon is 475 DEG F. Cure temperatures up to 450 DEG F and pressures exceeding 100 psi are possible without the use of fiberglass or metal chain paths for conducting volatiles away from laminates. Fewer layers of Ultra Flo 3000 is a lighter weight constriction than Ultra Flo 1000 or Ultra Flo 2000.

#### PHYSICAL PROPERTIES

Weight, oz/sqyd

10

Denier

40

Thickness, inches

.275

Use temperature

450 DEG F max

Softening temperature

475 DEG F

#### **PACKAGING**

Standard roll sizes:

60 in x 50 yards

Wider widths are available upon request.

Slitting of master rolls to any width is available upon request.



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## ULTRA FLO 4000 HIGH TEMPERATURE AND PRESSURE NYLON BREATHER

#### DESCRIPTION

Ultra Flo 4000 is a 4 ounce breather material made from high temperature resistant nylon fiber that is lightweight and stretchable. It conforms to complex part and assembly shapes and outperforms polyester breathers in composites processing. Trapping off air and volatile flow during high temperature-high pressure cure cycles is a thing of the past with Ultra Flo 4000. The nylon fibers in non-woven mat form do not soften and compact like polyester as the softening point of nylon is 475 DEG F. Cure temperatures up to 450 DEG F and pressures exceeding 100 psi are possible without the use of fiberglass or metal chain paths for conducting volatiles away from laminates. Fewer layers of Ultra Flo 4000 is a lighter weight constriction than Ultra Flo 1000 thru Ultra Flo 3000.

#### **PHYSICAL PROPERTIES**

Weight, oz/sqyd

4

Denier

40

Thickness, inches

1/8

Use temperature

450 DEG F max

Softening temperature

475 DEG F

#### **PACKAGING**

Standard roll sizes:

60 in x 50 yards

Wider widths are available upon request.

Slitting of master rolls to any width is available upon request.