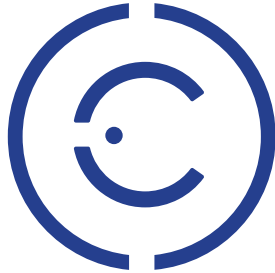


SAMPLE CONTENTS



- ① CT100 - Cleantuff
- ② CFB1000 - Barefoot LDPE
- ③ CFB2500 - Ultra Low Outgassing
- ④ CFB4000 - High Density PE
- ⑤ CFB5000 - Clear Nylon
- ⑥ CFB5100 - Orange Antistatic Nylon
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- ⑧ CFB6500 - Static Shield



- © Outstanding Quality Rejection Rates, under 0.3%
- © Domestically Sourced Barefoot Resin Only
- © State of the Art ISO Class 6 and ISO Class 7 Cleanrooms
- © All products manufactured to meet IEST and NASA Cleanliness specs

- © In house lab testing consisting of:
 - Liquid Laser Particle Count Testing
 - Burst and Creep Testing
 - Tensile Strength Testing

- © ISO 9001:2015 certified
- © ISO 14644-1 CLASS 6 and ISO 14644-1 CLASS 7 Cleanrooms



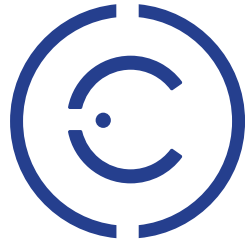
CT100 - Cleantuff

SPECIFICATIONS

A specially designed resin blend for added strength and higher elasticity. CT100-Cleantuff also displays the characteristics of a non-mar, non-scratch material and is available in custom colors.

| | |
|--------------|---|
| MATERIAL | Cleantuff |
| AVAILABLE AS | Lay-flat tubing, Sheeting, C-fold, Sheeting & Bags |
| CLARITY | Transparent |
| THICKNESS | .002, .003, .004, .005, .006, & .008. Custom gauges are available upon request. |

| PROPERTIES | VALUE | SPECIFICATION |
|-----------------------------|------------------|---------------|
| Density (Specific Gravity) | .925 | ASTM D 1505 |
| Gauge, Gauge Tolerance | 4mil, +/- 10% | ASTM D 374 |
| Tensile Strength @ Break | | ASTM D 882 |
| MD | 4350 PSI | |
| TD | 4270 PSI | |
| Elongation Strength | | ASTM D 882 |
| MD | 410% | |
| TD | 675% | |
| Dart Impact | 552 Grams | ASTM D 1709 |
| Cleanliness | LVL 50 & LVL 100 | IEST-CC-1246D |
| Tear resistance (Elmendorf) | 263 Grams | ASTM D 1922 |



2

CFB1000 - Barefoot LDPE

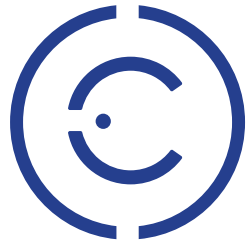
SPECIFICATIONS

This product is a strong general use clean packaging film specifically designed for use in clean applications. While it has a good cleanliness level, it can be slightly difficult to open. This is one of the more cost effective cleanroom packaging films available, while still providing a good level of cleanliness, strength and ease of sealing.

| | |
|--------------|--|
| MATERIAL | Virgin Barefoot Custom Polyethylene |
| AVAILABLE AS | Lay-flat tubing, Sheeting & Bags |
| CLARITY | Transparent |
| THICKNESS | .002, .003, .004, .005, .006 & .008. Custom gauges are available upon request. |

| PROPERTIES | VALUE | SPECIFICATION |
|----------------------------|------------------|---------------------------------|
| Density (Specific Gravity) | .920 | ASTM D 1505 |
| Tensile Strength @ Break | | ASTM D 882 |
| MD | 2900 PSI | |
| TD | 2300 PSI | |
| Elongation Strength | | ASTM D 882 |
| MD | 325% | |
| TD | 425% | |
| Dart Impact | 80 Grams | ASTM D 1709 |
| Cleanliness | LVL 50 & LVL 100 | IEST-CC-1246 NASA JPG 5322.1 |

Note: All CFB1000 products meet Fed Standard IP378D - Type 1, Class 2, Grade A, Finish 1



3

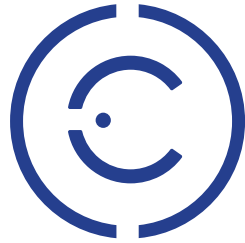
CFB2500 - Ultra Low Outgassing

SPECIFICATIONS

This product has been engineered specifically for critical products that require packaging in a film that combines low ionic contamination and ultra-low outgassing. Ultra Low Outgassing Poly packaging film has excellent handling characteristics and an extremely clean surface. With a higher gas barrier than standard low-density poly, Ultra Low Outgassing Poly is an excellent choice for vacuum packaging applications.

| MATERIAL | Virgin Barefoot Custom Polyethylene | |
|----------------------------|--|---------------|
| AVAILABLE AS | Lay-flat tubing, Sheeting & Bags | |
| CLARITY | Transparent | |
| THICKNESS | .002, .003, .004, .005, .006 & .008. Custom gauges are available upon request. | |
| PROPERTIES | VALUE | SPECIFICATION |
| Density (Specific Gravity) | .924 | ASTM D 1505 |
| Gauge, Gauge Tolerance | 4mil,+/-10% | ASTM D 374 |
| Tensile Strength @ Break | | ASTM D882 |
| MD | 2900 PSI | |
| TD | 2300 PSI | |
| Elongation Strength | | ASTM D 882 |
| MD | 220% | |
| TD | 330% | |
| Dart Impact | 80 Grams | ASTM D 1709 |
| Cleanliness | LVL 50 & LVL 100 | IEST-CC-1246D |

Note: All Ultra Low Outgassing products meet Fed Standard IP378D - Type 1, Class 2, Grade A, Finish 1



4

CFB4000 - High Density PE

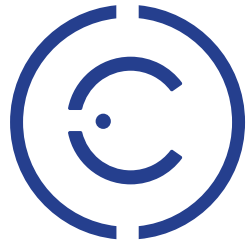
SPECIFICATIONS

This product is primarily used for vacuum packaging applications that require superior cleanliness levels due to intimate contact of contamination sensitive components. Having a somewhat cloudy appearance, this material exhibits superior strength, greater puncture resistance, low non-volatile residue, low outgassing and ease of opening.

| | |
|--------------|---|
| MATERIAL | Virgin Barefoot Custom Polyethylene |
| AVAILABLE AS | Lay-flat tubing, Sheeting & Bags |
| CLARITY | Transparent |
| THICKNESS | .002, .003, .004, .005, .006 and .008 Custom gauges are available upon request. |

| PROPERTIES | VALUE | SPECIFICATION |
|----------------------------|------------------|----------------------------------|
| Density (Specific Gravity) | .937 | ASTM D 1505 |
| Tensile Strength @ Break | | ASTM D 882 |
| MD | 6100 PSI | |
| TD | 6100 PSI | |
| Elongation Strength | | ASTM D 882 |
| MD | 500% | |
| TD | 600% | |
| Dart Impact | 130 Grams | ASTM D 1709 |
| Cleanliness | LVL 50 & LVL 100 | IEST-CC-1246D NASA JPG 5322.1 |

Note: All values given are based on a 2.0 mil thick film



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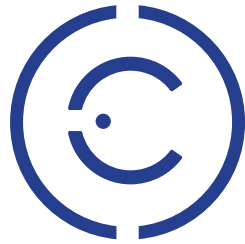
CFB5000 - Clear Nylon

SPECIFICATIONS

CFB5000 is a Nylon 6 product that can be cleaned to the most stringent specifications, due to its hard surface. It is a strong, abrasion resistant film that is used in a variety of clean applications. Nylon is an unplasticized, FDA approved food grade clear film that offers very low ionic contamination and non-volatile residue.

| MATERIAL | Nylon 6 | |
|---|---|---------------------------------|
| AVAILABLE AS | Lay-flat tubing, Sheeting, C-fold Sheeting & Bags | |
| CLARITY | Transparent | |
| THICKNESS | .002 | |
| PROPERTIES | VALUE | SPECIFICATION |
| Density (Specific Gravity) | 1.14 | ASTM D 1505 |
| Tensile Strength @ Break (PSI) (1mil) | 17,200-20,600 | ASTM D 882 |
| Water Vapor Transmission Rate gm/100sq. in./24hrs/90% R.H.,100°F | 36.5 | ASTM F1249 |
| Oxygen Transmission Rate (1mil): | | ASTM F1927 |
| • 50% R.H., 73°F | 1.85 | |
| • 90% R.H., 73°F | 6.35 | |
| Cleanliness | LVL 50 & LVL 100 | IEST-CC-1246 NASA JPG 5322.1 |

Note: All values unless otherwise noted are based on a 2.0 mil thick film



6

CFB5100 - Orange Antistatic Nylon

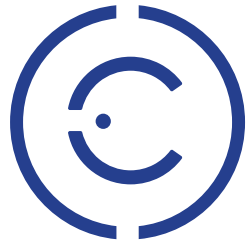
SPECIFICATIONS

CFB5100 is a product that can be cleaned to the most stringent specifications, due to its hard surface. It is a strong, abrasion resistant film that is used in a variety of clean applications. Nylon is an unplasticized film that offers the lowest levels of particulate counts of any clean film. Additionally, it is very low in ionic contamination and nonvolatile residue.

| | |
|--------------|-----------------------------------|
| MATERIAL | Anti-static Nylon Type 6 - Orange |
| AVAILABLE AS | Lay-flat tubing, Sheeting & Bags |
| CLARITY | Transparent |
| THICKNESS | .002 |

| PROPERTIES | VALUE | SPECIFICATION |
|--|----------------------------------|----------------------------------|
| Density (Specific Gravity) | 1.14 | ASTM D 792 |
| Tensile Strength | 15,400 PSI | ASTM D 882 |
| Elongation % | 403-455 | ASTM D 882 |
| Tear, Graves (grams/mil) | 130 Grams | ASTM D 1004 |
| Coefficient of Friction | | ASTM D 1894 |
| <ul style="list-style-type: none"> Film-Film Side A-B Kinetic Film-Metal Kinetic | .38 .26 | |
| Surface Resistivity | 1×10^{12} Ohms/sq.@100v | ASTM D 257 |
| Moisture Vapor Transmission Rate | 3.3gm/100sq. in/24hrs@75F | ASTM E96 |
| Oxygen Transmission Rate | 500cc/100sq. in/24hrs@75F | ASTM D1434 |
| Cleanliness | LVL 100 | IEST-CC-1246D NASA JPG 5322.1 |

Note: All values given are based on a 2.0 mil thick film



7

CFB5500 - Compos-a-Clean

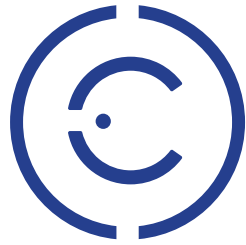
SPECIFICATIONS

CFB5500 is a very strong and clear material designed for tough food and industrial applications. It's high nylon content enables it to be used in critical vacuum applications that require strength and impact resistance. It is typically specified for large bags that must carry a heavy load. This FDA approved film does not stretch due to the orientation of layers during the laminating process.

| | | | |
|--|--|----------------------------------|--|
| MATERIAL | Poly/Nylon | | |
| AVAILABLE AS | 2-seal pouch, 3-seal pouch, side gusset, stand up pouch and tubing. Features include: reclose able zipper, tear notch. Available in web widths to 50 inches | | |
| CLARITY | Transparent | | |
| THICKNESS | .003 and .005 | | |
| PROPERTIES | VALUE | SPECIFICATION | |
| Tensile Strength@Break (LBS)(MD) | 34 | ASTM D 882 | |
| M.V.T.R gm/100sq. in./24hrs | .3 | MOCON | |
| Oxygen Transmission Rate cc/100sq in./24hrs @ 75F | 2.7 | MOCON | |
| Cleanliness | LVL 100 | IEST-CC-1246D NASA JPG 5322.1 | |

Note: All values given are based on a 5.0 mil thick film

The values indicated in this document are the results of tests made in compliance with the normal standards. They are given as an indication and should be considered as average values and given without any obligation on our part. This data was provided for CF&B from our film supplier.



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CFB6500 - Static Shield

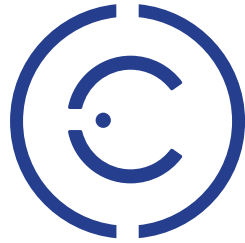
SPECIFICATIONS

CFB86500 is a semi-transparent, electro-static protective, buried metal, heat-sealable, flexible structure offering excellent electrostatic shielding properties that is polycarbonate compatible and contains no Amines, Amides, or N-Octanoic Acid.

| | |
|--------------|---|
| MATERIAL | Metal-in metalized PET/Poly with Anti-static coating on interior and exterior of film |
| AVAILABLE AS | 2-seal pouch, Square bottom pouch, Sheeting & Tubing |
| CLARITY | Metalic |
| THICKNESS | .00285 |

| PROPERTIES | VALUE | SPECIFICATION |
|--------------------------------|---------------------|----------------------------------|
| M.V.T.R gm/100sq. in./24hrs | .35 | ASTM F1249 |
| Tensile Strength @ Break (LBS) | 15 | ASTM D 882 |
| Tear @ Break (LBS) | 2 | D-882 |
| Puncture @ Break (LBS) | >10 | ASTM 2065 |
| Surface Resistivity @ 15% RH | <10 ¹² | ASTM D 257 |
| EMI Shielding (DB) | <10 (1-10 ghz) | MIL B 81705 C |
| Electrostatic Decay (seconds) | <.05 (5000-0 volts) | EIA 541 |
| Capacitance Probe (volts) | <10V, 20ms | EIA 541 |
| Cleanliness | LVL 100 | IEST-CC-1246E NASA JPG 5322.1 |

Note: The values indicated in this document are the results of tests made in compliance with the normal standards. They are given as an indication and should be considered as average values and given without any obligation on our part. This data was provided for CF&B from our film supplier.





CLEANROOM FILM & BAGS

A division of The logo for the parent company, SP, consists of the letters 'S' and 'P' in a white, italicized, sans-serif font, enclosed within a white oval.

Capabilities

Our state-of-the art cleanrooms not only meet the highest level of compliance (ISO 9001:2015 compliant) but are vertically integrated, equipping CFB with the ability to meet the unique demands of every customer while creating superior quality clean packaging at our Orange, CA facility for microelectronic, aerospace, semiconductor, silicon, and food markets.

Materials

Our resins are pure from the start and contain ZERO additives like "slip" and "anti-block."

