

## Grade: F86SM1/AirDry HotPeel

Heat Transfer Release Film - Screen Printing - Hybrid Printing - Litho Printing.

Grade F86SM1/AirDry HotPeel energy saver and reduces rejections in registration for textile transfer in screen printing process. This is 1 side matte release 11 $\mu$  & other side antistatic coated . Compatibility with Water based inks for Air Dry, Also compatible with Plastisol inks, Oil based inks, Silicone inks & Solvent inks.

### Typical Properties

1. Appearance	Translucent Film
2. Base - PET Film	75 $\mu$
3. Side 1 Antistatic Coated	10 <sup>9</sup> $\Omega$ - 10 <sup>10</sup> $\Omega$
4. Side 2 Matte release coated	Even & Smooth Finish
5. Matte release coating thickness	11 $\mu$ (+ / - 2 $\mu$ )
6. Matte value of release coating	10 GU (+ / - 1GU)
7. Standard Size	485mm X 635mm, Custom size possible.
8. Print Hold Out	Medium to High
9. Release force	Medium to Low (Hot & Cold Peel)

### Special Benefits:

Energy Saver / Easy in registration / Smooth matte coating / Smooth Peel Off / Satin matte finish to transfers.

### Application:

F86SM1/AirDry HotPeel as grade names says textile transfer when printed with water based inks can be air dried in a rack within 2 to 4 hours. It can also be dried in a conveyor oven at low temp. @ 60°C to 90°C. With this feature a blank pass or pre shrink pass is not required. It is compatible with transfers printed with Oil based inks, Plastisol inks, Solvent based inks & Silicone inks. Can be used in Screen printing, Hybrid printing process & Offset Printing process. Film can hot or cold peeled after applying transfers on garment.

### Guidelines for printing:

- Water based inks RACK dry process: No blank pass or pre shrinkage of film required.
  1. Print sheets with 1st color, rack dry for 2 to 4 hours.
  2. Follow above method to print all the next colors.
  3. After colors are done print adhesive apply Hot melt Powder & pass from IR + Hot air conveyor oven @ 160°C to 180°C for 60 to 45 Seconds. Cool the film before stacking on each other.
- Water based inks Conveyor OVEN dry Process: No blank pass or pre shrinkage required.
  1. Print sheets with 1st color, Pass it through pass It from IR + Hot air conveyor oven @ 60°C to 90°C for 60 to 45 seconds.
  2. Follow above method to print all the next colors.
  3. After colors are done print adhesive apply Hot melt Powder & pass from IR + Hot air conveyor oven @ 160°C to 180°C for 60 to 45 Seconds. Cool the film before stacking on each other.

Note: Oven temp is not the set temperature but the actual temp received on the film. visit <https://www.ultranex.co.in/FAQ.html> for more information.

Transfers can be applied from 140°C to 180°C for 15 to 4 seconds with 2 to 4 bars pressure as required.

Disclaimer: Changes can be done on above specification for improvements, Above specification data is our test values and not limits decided & derived by our best possible knowledge of printing & transfer trials / results, "results may vary with user to user in different processes, process controls & Allied materials like ink & / or hotmelt adhesive used which film manufacturer has no control", film manufacturer cannot accept or not be liable for any claims on rejection of any kind, . No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. User should test Film with required functionality with series of trials before mass productions. Suggested in house testing on sampling basis for bulk user before using in production. We reserve the right to make any changes according to technological progress or further developments.

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## Grade: F83SM1/Premium, F108SM1/Premium

### Heat Transfer Release Film - Screen Printing

Premium is an extra matte grade in our portfolio which gives matte look & soft touch to the transfers, available in thickness 83μ & 108μ. Premium grade can be used for high quality Tagless neck labels, Big patch printing for T shirts etc... It is one side matte release coated and other side Antistatic coated film. Compatibility for printing textile transfers with Plastisol inks, Oil based inks & Water based inks.

### Typical Properties

1. Appearance	Translucent Film
2. Base - PET Film	75μ / 100μ
3. Side 1 Antistatic Coated	10 <sup>9</sup> Ω - 10 <sup>10</sup> Ω
4. Side 2 Matte release coated	Even & Smooth Finish
5. Matte release coating thickness	8μ (+ / - 2μ)
6. Matte value of release coating	8 GU (+ / - 1GU)
7. Standard Size	485mm X 635mm, 510mm X 762mm Custom sizes possible.
8. Print Hold Out	Medium to High
9. Release force	Medium to High (Cold Peel)

### Special Benefits:

Extra matte coating / Smooth and even coating / Easy Powder Application / Smooth Peel Off / Soft touch to transfers.

### Application:

Premium grade is one side matte and other side Antistatic coated film. It is made for using in Screen Printing process like Manual, Semiautomatic, Automatic, Roll to Roll. It can be also used in Hybrid printing, Litho offset printing for Tagless neck labels, Chest prints, large screen prints images for transfer on garments. Compatible with inks like Plastisol inks, Oil based inks & Water based inks.

- When Premium grade film is printed with Plastisol or oil based inks, Release can be Hot, Warm and Cold Peel.
- When Premium grade film is printed with water based inks, Release can be Cold Peel only.

### Guidelines while printing & Transfer:

1. Blank pass the sheets from IR + Hot air conveyor oven @ 170°C to 160 °C for 60 to 90 Seconds.
2. Pass Printed colors from IR + Hot air conveyor oven @ 130°C to 140°C for 60 to 45 Seconds.
3. After adhesive printing + Powder application pass from IR + Hot air conveyor oven @ 130 to 140°C for 60 to 45 Seconds. Cool the film before stacking on each other.

Note: Oven temp is not the set temperature but the actual temp received on the film. visit <https://www.ultranex.co.in/FAQ.html> for more information.

Transfers can be applied from 140°C to 180°C for 15 to 4 seconds with 2 to 4 bars pressure as required.

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## Grade: F83SM1/Economy

### Heat Transfer Release Film - Screen Printing

Economy is the grade economically priced for competitive market e.g. Tagless neck labels, But should not be mistaken by assuming it as an inferior quality. In this grade we have managed to keep balance of quality and price. It is one side matte release coated and other side Antistatic coated film. Compatibility for printing textile transfers with Plastisol inks, Oil based inks & Water based inks.

### Typical Properties

1. Appearance	Translucent Film
2. Base - PET Film	75μ
3. Side 1 Antistatic Coated	10 <sup>9</sup> Ω - 10 <sup>10</sup> Ω
4. Side 2 Matte release coated	Even & Smooth Finish
5. Matte release coating thickness	8μ (+ / - 2μ)
6. Matte value of release coating	10 GU (+ / - 1GU)
7. Standard Size	485mm X 635mm, Custom size possible.
8. Print Hold Out	Medium to High
9. Release force	Medium to Low (Warm & Cold Peel)

### Special Benefits:

Economic price / Smooth matte coating / Easy Powder Application / Smooth Peel Off / Satin matte finish to transfers.

### Application:

F83SM1/Economy grade is one side matte and other side Antistatic coated film. It is made for using in Screen Printing process like Manual, Semiautomatic, Automatic, Roll to Roll. For printing Tagless neck labels for garments, large screen prints images etc... It can be also used in Litho offset labels with Plastisol ink backup. Compatible with inks like Plastisol inks, Oil based inks & Water based inks.

- When Economy grade film is printed with Plastisol or oil based inks Hot, Warm and Cold Peel possible
- When Economy grade film is printed with water based inks as a warm to cold peel transfers.

### Guidelines while printing & Transfer:

1. Blank pass the sheets from IR + Hot air conveyor oven @ 160°C to 170 °C for 90 to 60 Seconds.
2. Pass Printed colors from IR + Hot air conveyor oven @ 130°C to 140°C for 60 to 45 Seconds.
3. After adhesive printing + Powder application pass from IR + Hot air conveyor oven @ 160 to 170°C for 90 to 60 Seconds. Cool the film before stacking on each other.

Note: Oven temp is not the set temperature but the actual temp received on the film. visit <https://www.ultranex.co.in/FAQ.html> for more information.

Transfers can be applied from 140°C to 180°C for 15 to 4 seconds with 2 to 4 bars pressure as required.

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## Grade: F86SM1/DTF

### Heat Transfer Release Film - DTF Inkjet Printing

Grade **F86SM1/DTF** is for printing textile transfer with a DTF Inkjet printer. This is 1 side matte release 11 $\mu$  & other side antistatic coated. Matte release coating compromise of 2 layer base layer is release layer and top layer is inkjet ink respective coating. These coatings are very functional not only in printing but it has also effect in wash fastness of the image transferred on the garment.

### Typical Properties

1. Appearance	Translucent Film
2. Base - PET Film	75 $\mu$
3. Side 1 Antistatic Coated	10 <sup>9</sup> $\Omega$ - 10 <sup>10</sup> $\Omega$
4. Side 2 Matte release coated	Even & Smooth Finish
5. Matte release coating thickness	11 $\mu$ (+ / - 2 $\mu$ )
6. Matte value of release coating	10 GU (+ / - 1GU)
7. Standard Size	A3, A4, Rolls: 600mmX100Mtrs, 300X100Mtrs
8. Print Hold Out	Medium to High
9. Release force	Medium to Low (Hot & Cold Peel)

### Special Benefits:

Quick Ink drying / Trouble Free Powder Application / Stability in Heated Oven / No Oily feel / Bright & Vibrant colors / Good Adhesion of print to film / Smooth Warm & Cold Peel / Satin Matte finish to transfer surface / Extra Soft Feel to Transfers / Stretchable transfers / Excellent wash Fastness / Long shelf life.....

### Description:

F86SM1/DTF is applicable in printing DTF Transfers with Inkjet printing. The most functional part of DTF Film is inkjet ink receptive layer, it is such that it has to quick set / dry liquid inkjet ink in printing, Should open up the color vibrancy of ink, In Hot Melt powder application it should resist powder to stick on non printed area, in drying coating should not burn out, In transfers it should release smoothly from base layer, It has to bond with the ink layer to serve as a protective layer to transfers through out its life cycle.

### Guidelines for printing & transfer:

- In Handling film in sheet form best is used a gloves to avoid damage to coating, also use of gloves is best while loading roll is recommended.
- Ultranex DTF film is inherent antistatic and powder should easily fall off in hotmelt powder application so avoid extra tapping.
- in drying process we recommend apply 160°C to 180°C for 3 to 4 Minutes to the printed surface of the film. We recommend a medium wave IR Heater in the shaker. **Note: Oven temp is not the set temperature but the actual temp received on the film.**
- Normally well dried labels will not show sweating or oil on the label surface in storage condition, but it is recommended that ready labels to be kept in moisture proof poly bags to avoid moisture issue.

Transfers can be applied from 160°C to 180°C for 30 to 15 seconds with 2 to 4 bars pressure.

With certain type of design hot peel is not applicable, but we recommend warm to cold peel to get best results.

**Note: If you see oily stains on the transferred surface wipe it with a damp cloth this is enough. It is recommended that these labels should be dried again for 1 to 3 minutes @ 160°C before transfer so any access moisture is removed.**

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