



## **OFFICIAL RELEASE**

### **Uflex launches HP Indigo certified Digitally Printable Polyester Film, F-PDP**

**Noida, 14 March 2017:** In contemporary times Digital Printing is the name of the game given its ability to offer ultimate solutions for flexible packaging, labels and decorative printing segments. The converting industry for long has been grappling with restricted availability of the right type of substrate supporting direct digital printing without prior priming /coating or surface treatment for that matter.

The main objective of any surface treatment method is to increase the energy of film's surface for improving wet-out and adhesion of coatings, inks and adhesives used in converting process. Surface treatment of films/substrates may involve several techniques like corona discharge; flame treatment; priming and chemical etching. This could be an expensive proposition besides increasing the lead time.

**To alleviate this problem, India's largest multinational flexible packaging materials and Solution Company Uflex Limited has launched a special polyester film, F-PDP with modified surface on one side while the other side remaining untreated. This film is digitally printable without any need for priming/ coating.**

This film can be directly printed without requiring printing plates/ cylinders as in the case of conventional printing process. Additionally the film demonstrates good transparency; optical clarity; excellent machinability and dimensional stability besides offering excellent flatness and agile handling properties.

**The polyester (PET) film F-PDP has been certified by Rochester Institute of Technology for digital printing by HP Indigo commercial and sheet fed presses.**

***There are a multitude of benefits associated with digitally printable PET films:***

- Suitable for small run jobs particularly for new launch or re-launch of products;
- Minimizes lead time at the converter's end because no primer/ coating is required;
- Gives excellent print results with high quality resolution for pictures and half-tone jobs using primary colors i.e. C,M,Y,K and White giving results at par with conventional printing even on transparent substrates;
- Option of special colors like Gold, Silver etc. can further impart depth in printing;

**Digital print on Uflex's direct printable polyester film (F-PDP)**

**Labels & Packaging Substrate Evaluation Report** certified for HP Indigo

Evaluation	Measurement	Result	Grade (out of 5)	Comments
Blocker Compatibility	Blocker memory of previous image	DRIGHT	★★★	
Resist colour set	Fluorescence	Pass		
Temperature imaging	Temperature 1 degree	Pass		
	Temperature 2 degree	N/A		
UV/LED print parameters	Not evaluated	Result within white hit		Result within white hit
FTIR temperature	0	0		
Modulus temperature	155	30		
Endurable pressure	200	200		
Substrate finish		Pass		

**Comments:**  
1 Dry cycle added for double white hit

**Print size setting criteria (out of 5 stars):**

Resolution	Resolution	Resolution	Resolution	Resolution
100% (100 dots/inch)	200% (200 dots/inch)	300% (300 dots/inch)	400% (400 dots/inch)	600% (600 dots/inch)

**HP Labels & Packaging Substrate Evaluation Report**

**Report Information:**  
 Supplier Name: Uflex Films USA  
 Supplier Address: 1221 NORTH BLACK BRANCH ROAD, ELIZABETHTOWN, KENTUCKY, 42701 USA

**Material Information:**  
 Substrate Name: PDP-FET DIGITAL PRINTING  
 Substrate Size: FET  
 Substrate Category: Flexible Packaging  
 Thickness: 12 mils (305 microns)  
 Certification Number: R0600-14-3422  
 Qualification Tester: HP  
 Date of Evaluation: 06/03/2014  
 Evaluated on: HP i60000  
 Certified by: HP 60000 & 60000  
 Evaluation Process: Full

**Substrate Properties:**  
 Modulus: 155 MPa  
 Elongation: 30%  
 Tensile Strength: 200 MPa

**Printability:**  
 Substrate withstands on press: Pass  
 None to flame registration: Pass

**Adhesion / Aging:**  
 Peeling 100% ink coverage peak (400% of 15 sec 60 min): 95%  
 Peeling 400% ink coverage peak (400% of 15 sec 60 min): 95%  
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**Conclusion:**  
 This substrate is suitable for digital printing on HP Indigo. The substrate is suitable for digital printing on HP Indigo. The substrate is suitable for digital printing on HP Indigo.

HP Printing Applications Laboratory  
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**Mr. J.K. Sharma, AGM, Technical Service and New Product Development (Films), Uflex Limited** talking about the benefits of Digitally Printable Polyester Film said, *“Coating / priming or surface treatment of a film for enhancing its ink adhesion properties is a time consuming process needless to mention the additional costs that are involved. Our special F-PDP film is a perfect delight for convertors at a time when the entire world is moving towards Just in Time (JIT) deliveries minimising inventories. Polyester film suitable for direct digital printing has been a need gap. Other inherent advantages of Polyester film like the ability to render excellent print results; being tear-proof and crack resistant make it a suitable and preferred media for digital printing. Additionally Polyester is able to withstand high temperatures and remains stable and inert to many chemicals further enhancing its suitability for convertors.”*

Talking further about this specialised polyester film, **Mr. Pramod Sirsamkar, President – Technical & New Product Development (Films), Uflex Limited** said, *“Depending upon the requirements of the ensuing converting process, we can offer F-PDP film in various thicknesses ranging from 10-50 microns. The demand for this substrate is quite encouraging both in India as well as overseas as a result of which we are manufacturing it at all our plants i.e. India, UAE, Poland, Egypt, Mexico and USA.”*

**Mr. Ashok Chaturvedi, Chairman and Managing Director, Uflex Limited** hailing the recent innovation said, *“Digital Printing spells out immense convenience for*

**convertors in terms of economized costs; suitability for shorter print runs; less set up time compared to offset printing and unmatched print consistency among others. I am happy that Uflex has engineered a special polyester substrate that is perfectly receptive for digital printing without requiring any priming/ coating or special treatment.”**

**Visit Uflex at Interpack, Dusseldorf from 04 through 10 May 2017 at Pavilion D-44, Hall Number 10**

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#### About Uflex

*Uflex is India's largest multinational flexible packaging materials and Solution Company and an emerging global player. Since its inception back in 1985, Uflex has grown from strength to strength to evolve as a truly Indian Multinational with consumers spread across the world. Uflex today has state-of-the-art packaging facilities at multiple locations in India with installed capacity of around 100,000 TPA and has packaging film manufacturing facilities in India, UAE, Mexico Egypt, Poland and USA with cumulative installed capacity in excess of 337,000 TPA.*

*All Uflex plants are accredited with ISO 9001, 14001, HACCP & BRC certifications. Uflex caters to markets spanning across the globe in over 140 countries like USA, Canada, South American countries, UK and other European Countries, Russia, South Africa, CIS, Asian and African nations. Integrated within its core business profile are allied businesses like Engineering, Cylinders, Holography and Chemicals which further give Uflex a superior edge above competition.*

*Uflex Limited is also a part of the D&B Global Database and winner of various prestigious national and international awards for its products' excellence. Uflex offers technologically superior packaging solutions for a wide variety of products such as snack foods, candy and confectionery, sugar, rice & other cereals, beverages, tea & coffee, dessert mixes, noodles, wheat flour, soaps and detergents, shampoos & conditioners, vegetable oil, spices, marinades & pastes, cheese & dairy products, frozen food, sea food, meat, anti-fog, pet food, pharmaceuticals, contraceptives, garden fertilizers and plant nutrients, motor oil and lubricants, automotive and engineering components etc.*

*Some of Uflex's clients on the global turf include P&G, PepsiCo; Tata Global; Mondelez, L' Oreal, Britannia, Haldiram's, Amul, Kimberly Clark, Ferro Rocher, Perfetti, GSK, Nestle, Agrotech Foods, Coca Cola, Wrigley, Johnson & Johnson among others.*

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