

# WATER TRANSFER PRINTING FILM

水轉印膜·熱塑轉印膜·TT金屬密著膜·ET模內複合膜·彩色防水透濕膜·水轉印專業加工·整廠設備技術輔導  
WATER TRANSFER PRINTING FILM / THERMOFORM TRANSFER PRINTING FILM / TT METAL LAMINATED FILM / ET IN MOLD COMBINATION FILM /  
COLORFUL BREATHABLE & WATERPROOF FILM / PROFESSIONAL WATER TRANSFER PRINTING SERVICE / EQUIPMENT & TECHNOLOGY TRANSFER

## A. INTRODUCTION TO WATER TRANSFER PRINTING FILM

Water Transfer Printing is also known as Cubic Printing, which can achieve the excellent effect on cubic materials. Water Transfer Printing not only provides much better performance than traditional printing on curved surface, but also reduces the production cost.

Water Transfer Printing leads products to mimic real thing such as wood, stone or metal, and the finished products are waterproof and not easy to be faded. The film is combustible, recyclable, will be naturally decomposed by humidity and microorganism once buried in the earth after 3~5 years. Therefore, it is also a green product for environment.

## B. THE TECHNICAL PROCESS OF WATER TRANSFER PRINTING

### a. Pattern Selection

Pick up the pattern according to the grain request.

### b. Dipping Processes

1. Prior Treatment: To keep the cleanness of material and ensure the perfect adhesion for coating by de-fouling and flame treatment.
2. Primer Coating: Choose suitable base paint according to different material, and spray it on the material averagely by customers' color demand.
3. Film Laying: Cut the film in proper size to fit work piece and lay it on water, and check that there is no gap between film side and water side to avoid bubbles generated.
4. Activation: After laying the film on water for 60seconds to 90seconds, spray the activator uniformly on the film to make the paint become soft and elastic.
5. Dipping: Fix the material on the jig, then aim at the activated paint and dip stably by proper angle until the printing required part under water.

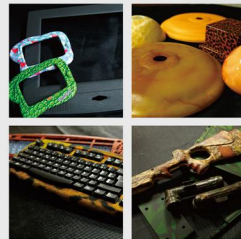


6. Rinsing: Rinse the printed material by washing machine until no film residue on the surface, and dehydrate it by baking.



### c. Final Coating

1. Lacquer: Spray the lacquer on the printed piece, to make its grain get well protection.
2. Baking: Place the printed material in the oven till dry, then it will be the final product.



## C. APPLICATIONS

Water Transfer Printing can be applied to various materials, such as plastic (ABS / PU / PP / PE / TPR / 4FS / PVC), metal (copper / iron / aluminum), nylon, wood, stone, bakelite, ceramics, etc. By the process of Water Transfer Printing, the products always can be decorated lively and the additional value will be improved. Therefore, it is widely adopted in all industrial fields.

- a. Automobile Parts: Gauge board, steering wheel, tissue box, rear-view mirror frame, gear handle, locks, interior panel., etc.
- b. Electronics: Audio, remote control, air conditioner, refrigerator, hair dryer, computer mouse, keyboard, and other electrical appliances.
- c. Communication Products: Mobile phone, telephone, fax machine., etc.
- d. Shoes Materials: Shoe sole and shoe side facing.
- e. House Articles: Clock, sofa, tea table, cabinet, lamp, ashtray, vase and so on.
- f. Daily Commodities: Suitcase, pot handle, glasses, photo frame, racket, cosmetic box., etc.
- g. Stationery: Pen, desk tidy, calculator, or other handicrafts.
- h. Interior Materials: Window, door, floor board, wall panel, and other furniture.
- i. Others: Exercise equipment, gardening tool, military product, bathroom commodity., etc.

## D. WHAT CCH OFFERS

### a. Water Transfer Printing Film and Activator

"IFFA" is the brand of film which CCH offers. CCH supplies superior IFFA Water Transfer Printing Film with over 500 patterns for customers' choice, including wood grain, stone grain, metal grain, carbon fiber, camouflage and other designs. There are also professional designers in CCH who can develop the new patterns according to clients' request. CCH also provides specific formula for activator to lead excellent transferring effect on IFFA Film.

### b. Water Transfer Printing Equipment and Technology Transfer

CCH provides whole set of auto, semi-automatic, manual system of Water Transfer Printing machine, washing machine, and oven which depends on customers' space and capacity request. CCH has a professional team which provides customers the technologic instruction to assist customers to have independent operation.

### c. Water Transfer Printing Service

CCH also has its own Water Transfer Printing factory to supply fast and professional dipping service by customers' request.



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