TAEKYUNG CORPORATION

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Introduction of TAEKYUNG CORPORATION

As sister concern company of Shinwoo chemical, Taekyung Corporation is exporting HTL(i.e heat transfer label) release agent, inks and adhesive to Southwest Asian market (India).

We are making efforts to maximize overseas quantitative pursuits and corporate value by supplying products that have regained their pointed shape, from waste-free customer satisfaction response and delay management.

We will continue to strive with the best quality and service to realize the value of 'growth with customers' without being complacent.

Sincerely

KYUNGSIK KIM
PRESIDENT / TAEKYUNG CORPORATION

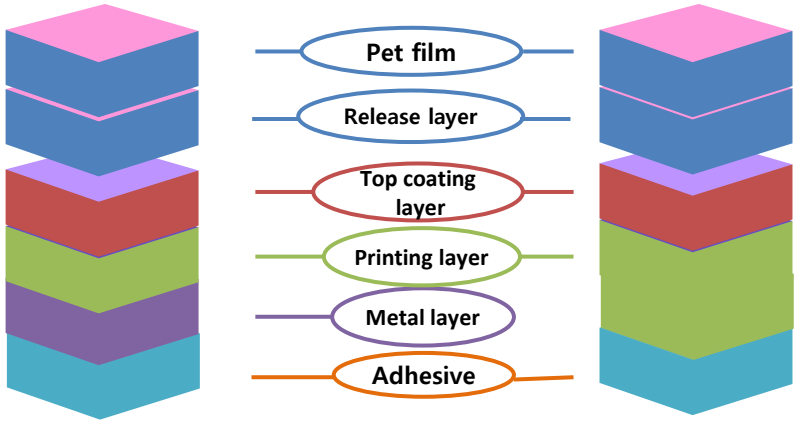
Heat transfer label principle and film structure

Heat transfer is a method of transferring the gravure printing finished film to the printed object using heat and pressure when printing on materials that are difficult to transfer in general printing methods. The advantage of heat transfer is that various colors and patterns can be easily transferred into final products made of all kinds of plastics such as ABS, PE, PVC, PP, etc. by using a transfer machine.

In order to understand more about heat transfer label, you must first understand the most important release agent, ink and adhesive, and understand the film structure.

Release agent: it is printed first to make the release layer, helps to release well from the PET film to the substrate and protects the surface of the ink layer (of pattern printing), that is, forms scratch resistance.
Ink: It is used after a release agent in gravure printing to express a design.
Adhesive: it enables film to attach into final subtract such as various plastics (ABS, PP, PE).

(FILM STRCUTRE)



Heat transfer label industry – process wise

The basic principle and process of heat transfer first starts with a gravure printing machine, and finally heats film by using rubber roll to transfer to the printed object and finishes.

FILM MAKING → FINAL SUBSTRACT (PP,ABS,PE) → HEAT TRANSFER

(1) Release agent

Gravure based release agent is applied by non-corona treated PET film and release agent must be separated with PET film and it protects the surface of ink (pattern printing).

Release agent is classified by two big category. First is molding (i.e. continuous pattern) and second is stationary usage. Depending upon printing condition and design, there are various release agent.

Grade	Characteristics	Usage
MJ-20	EASY release	Pen, Pencil (Small size) and fast release
MJ-30	HARD release	Bucket (Big size)
MJ-40	HARDER release	substrate which has various depth or when end-user feels more harder release is required. For example, in case,
MJ-60	VERY HARD release	Continuous pattern
DS-300	Specially designed for Metalizing heat transfer label	Metalizing film purpose release

(2) Inks

Our MJ series inks are applied after release and it enables end-user to make various colours and design. Inks are classified by LF grade. We do provide inks from Non-LF inks to Highest grade(8). In addition, we do provide the ink which itself has adhesion power. It has good advantage of reducing one process to optimize the production efficiency.

※ Heat transfer inks are usually made for basic colors such as Cyan, Magenta, yellow.
※ Self adhesion inks colors are usually white, black and Chocolate colors

(3) Adhesive

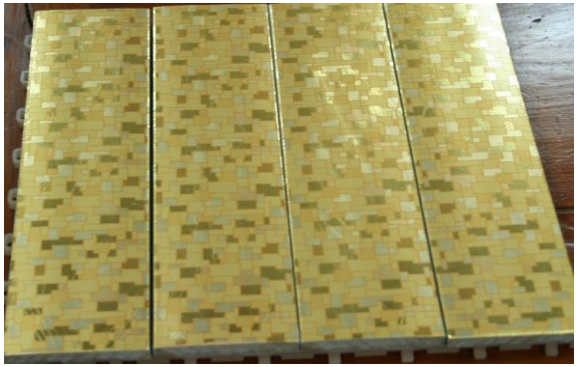
Adhesives differ depending on the type of plastic that is finally attached, and the types provided by our company are as follows.

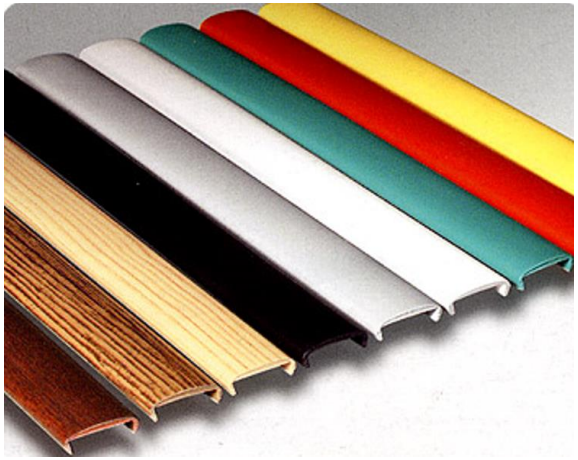
Grade	Characteristics	Usage
MJ-1050	Various application of plastics	ABS,PVC,PC
MJ-2050	High cutting required pp	High cutting required pp
MJ-3050	Nomal standard PP adhesive	PP
MJ-3050B	Low sealing temperature PP adhesive	PP
MJ-4050	Low sealing temperature HDPE adhesive	HDPE
MJ-7050	Low sealing temperature MDF adhesive	MDF

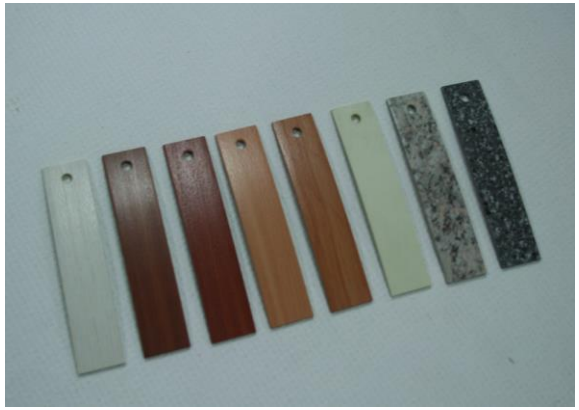
Stationary & household items examples

Industry and household items examples

Interior deco items examples







Interior deco items and photo-album frame examples