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**Product Specification:** Polyurethane Topcoat clear film 50inch  
**Code #** PUTC

**Product Description :** Polyurethane clear TOPCOAT  
**Available Roll Width(s):** 25inch and 50inch  
**Available Film(s):** 25 Micron PET  
**Substrates:** ABS, PS, Rigid PVC

**Features**

Film has concentrated Polyurethane with synthetic wax primer to give extra guard against scratching

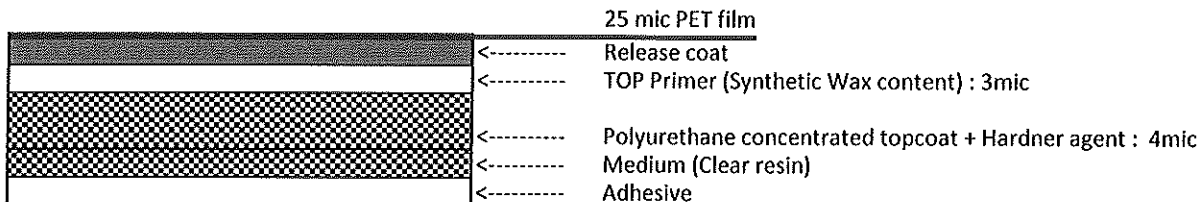
**Recommended Stamping Conditions**

Application Process	Roll-On Process
Application Temperature Range	160 c ~ 190 c / 320 - 375f
Type of Roller	Silicone Rubber Roller / 75 durometer
Stamping Speed	4 ~ 5 m/min (12' - 15' /minute)

**Testing Programs**

Programs	Result
• Hardness by scratch test (ASTM D3363 reference )	Steel Wood 12 Rubbing
• Adhesion test (1.dry prosses 2.wet rot 3.boiling water) (ASTM D3359B reference)	No Pull on tape
• Printing definition	Good
• Acetone test	30 rubbing
• Release test	Good
• House cleaner and alcohol test (Window cleaner, etc)	No change after 24 hours
• Oxidation Test (45~50C / 85~90% of humidity)	Testing in process
• ISO 11507/4892-3 Light Fastness	N/A
• Flake test	No flaking

**Make Up Structure**



**STORAGE CONDITIONS**

The foil shelf life is directly related to the storage conditions. When possible, keep the foil in a controlled atmosphere of between 65 - 75°F and a relative humidity of not more than 65%. Cool dry conditions are best when controlled atmosphere is not available. Do not store foil in direct sunlight, near open windows, near heat or conditions of dampness – Do not allow the foil to become physically wet. If long term storage is required over 9 months, material should be polybagged and sealed.

*The data presented is the results of extensive research, however, since the actual conditions under which this foil is used is beyond our control, adjustments to these recommendations may be required to achieve optimum results. Test results represented are internal quality audits for this product and do not imply a warranty of any kind.*