



Corona Treatment  
Core Layer  
Metallized On Chemical Coating

## METALLIZED BOPET FILM

### PRODUCT DESCRIPTION

Chiripal Poly Films CPT81-SM is Metallized on chemical coated side & other side corona.

This film is available with metal wound inside or Metal wound outside

### FEATURES

- ▶ Excellent in Metal Adhesion
- ▶ Excellent in Chemical resistance and Boiling resistance
- ▶ Good mechanical and dimensional properties.
- ▶ Good barrier against moisture and Oxygen
- ▶ Excellent Machinability and dimensional stability over a wide range of temperature

### APPLICATION

- ▶ Suitable for Hot fills application like Ketchup, Mayonnaise and some kind of aggressive liquid like liquid detergent, Liquid Juice, Pesticides etc.
- ▶ Suitable for Lami tube and Aseptic packaging

| PROPERTIES                               |         | UNIT        | TEST METHOD       | CP08T81 -SM | CP10T81 -SM | CP12T81 -SM | CP23T81 -SM |
|--|---------|-------------|-------------------|-------------|-------------|-------------|-------------|
| Nominal Thickness                        |         | Micron      | Internal Method   | 8           | 10          | 12          | 23          |
|  |         | Gauge       |                   | 32          | 40          | 48          | 92          |
| Yield                                    |         | m²/kg       |                   | 89.2        | 71.4        | 59.6        | 31.1        |
| Optical Density                          |         | -           | Tobias Instrument | 2.2+/-5%    | 2.2+/-5%    | 2.2+/-5%    | 2.2+/-5%    |
| Metal Bond Strength                      |         | gm/25mm     | Internal Method   | 550         | 550         | 550         | 550         |
| MECHANICAL PROPERTIES (Min)              |         |             |                   |             |             |             |             |
| Tensile Strength                         | MD      | Kg/cm²      | ASTM D-882        | 2200        | 2200        | 2200        | 2100        |
|  | TD      |             |                   | 2100        | 2100        | 2100        | 2000        |
| Elongation Break                         | MD      | %           | ASTM D-882        | 100         | 100         | 100         | 100         |
|  | TD      |             |                   | 90          | 90          | 90          | 90          |
| THERMAL PROPERTIES (Max)                 |         |             |                   |             |             |             |             |
| Thermal Shrinkage<br>(at 150°C /30 mins) | MD      | %           | ASTM D-1204       | 2.4         | 2.4         | 2.4         | 2.4         |
|  | TD      |             |                   | 0.4         | 0.4         | 0.4         | 0.4         |
| SURFACE PROPERTIES (Max)                 |         |             |                   |             |             |             |             |
| COF<br>(Metal to Film)                   | Static  | -           | ASTM D-1894       | 0.75        | 0.75        | 0.75        | 0.75        |
|  | Dynamic |             |                   | 0.65        | 0.65        | 0.65        | 0.65        |
| SURFACE TENSION                          |         |             |                   |             |             |             |             |
| Corona Treated Side                      |         | Dyne/cm     | ASTM D-2578       | 56          | 56          | 56          | 56          |
| BARRIER PROPERTIES                       |         |             |                   |             |             |             |             |
| WVTR, 37.7°C, 90% RH                     |         | gm/m² /day  | ASTM F-1249       | 0.8         | 0.8         | 0.8         | 0.8         |
| O2 Permeability 23°C, 0%RH               |         | cm³/m² /day | ASTM D-3985-95    | 1.0         | 1.0         | 1.0         | 1.0         |

Note : MD – Machine Direction, TD – Transverse Direction, COF - Co-efficient of Friction

**FOOD CONTACT** : Chiripal Poly Films complies with EC and FDA regulations. Specific documents and MSDS are available upon request

**STORAGE & HANDLING** : A storage temperature below 30°C & humidity 55±5 % is recommended in order to avoid any deterioration of the film surface properties. Excess humidity and heat can cause problem such as fast treatment decay, which can affect the quality of printing and coating. It is advisable to use the material on FIFO basis.

**DISCLAIMER**: The property given in the technical data sheet do not constitute product specification but represent typical performance values based on the best of our knowledge and believed to be accurate. These are given in good faith but it is for the customer to satisfy of the suitability for its own particular purpose. The user is solely responsible for the end use of the product and needs to perform their own tests to confirm the product suitability / compatibility in all respects. Chiripal Polyfilm does not guarantee the typical values. Chiripal Poly reserves the right to change the technical data sheet at any time for enhancing the quality of the products without prior information.