

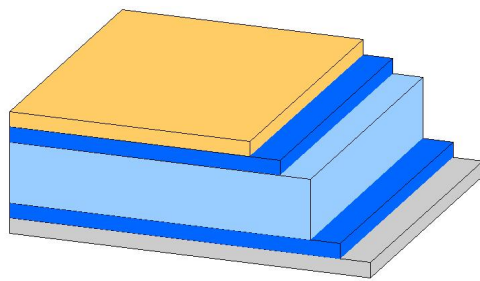



## Polyfilm Polyester Films

### Type: TPMCI (isotropic, metallised, corona treated) 12my

TPMCI is a 1 side metallised, 1 side corona treated polyester film with isotropic characteristics that is widely used in flexible packaging.

### Composition



-  corona treatment
-  standard surface
-  core
-  standard surface
-  metallisation

### Typical Properties

| Property                                       | Units                 | Nominal | Method          | Conditions         |
|--|-----------------------|---------|-----------------|--------------------|
| <b>Mechanical Properties</b>                   |                       |         |                 |                    |
| Nominal thickness                              | μ                     | 12      | Polyplex Method |                    |
| Unit weight                                    | g/m <sup>2</sup>      | 16.80   |                 |                    |
| Elongation at break                            | MD %                  | 140     | ASTM D-882      |                    |
|  | TD %                  | 120     |                 |                    |
| Tensile strength                               | MD kg/cm <sup>2</sup> | 2200    | ASTM D-882      |                    |
|  | TD kg/cm <sup>2</sup> | 2300    |                 |                    |
| <b>Thermal Properties</b>                      |                       |         |                 |                    |
| Heat shrinkage                                 | MD %                  | 1.8     | ASTM D-1204     | 150 Deg. C/30 min. |
|  | TD %                  | 0.4     |                 |                    |
| <b>Surface Properties</b>                      |                       |         |                 |                    |
| Co-efficient of friction metal to film static  |                       | 0.70    | ASTM D-1894     |                    |
| Co-efficient of friction metal to film dynamic |                       | 0.65    | ASTM D-1894     |                    |

| Property                    | Units                                       | Nominal | Method          | Conditions     |
|-----------------------------|---|---------|-----------------|----------------|
| Surface tension corona side | dyne/cm                                     | 54      | ASTM D-2578     |                |
| <b>Optical Properties</b>   |   |         |                 |                |
| Optical density             |   | 2.2     | Macbeth TD 931  |                |
| <b>Barrier Properties</b>   |   |         |                 |                |
| WVTR                        | g/m <sup>2</sup> 24hr                       | 0.8     | ASTM-F-1249     | 37.7°C/90%r.H. |
| Oxygen                      | cm <sup>3</sup> /m <sup>2</sup> 24hr<br>bar | 1.0     | ASTM-D-3985-95  | 23°C/0%r.H.    |
| <b>Yield Properties</b>     |   |         |                 |                |
| Yield                       | m <sup>2</sup> /kg                          | 59.6    | Polyplex Method |                |

## Standard Roll Presentation

| Thickness<br>μ | Core<br>mm | Length<br>m | outside diameter<br>mm |
|----------------|------------|-------------|------------------------|
| 12             | 76         | 6000        | 325                    |
| 12             | 76         | 12000       | 450                    |
| 12             | 152        | 18000       | 570                    |
| 12             | 152        | 24000       | 650                    |
| 12             | 152        | 36000       | 785                    |

## Disclaimer

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