

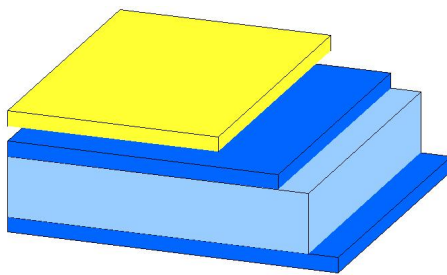






## Polyfilm Polyplex Polyester Films

### Type: S56 (chemically treated copolymer) 15my

Polyfilm S56 Polyester film is designed to enhance adhesion to various inks and coatings. On metallising the chemically treated side, it shows enhanced metal adhesion. It is used in flexible packaging and metallising applications which require increased bond strength and adhesion. S56 is generally not suitable for laminates which have to be resistant to pasteurisation or boiling water or for steam sterilisation. Do not corona treat the chemically treated surface, since this would destroy the adhesion properties.

### Composition



-  chemical treatment
-  standard surface
-  core
-  standard surface

### Treatment

S56O = copolymer treated outside S56I = copolymer treated inside

### Typical Properties

| Property              | Units                 | Nominal | Method     | Conditions |
|-----------------------|-----------------------|---------|------------|------------|
| Mechanical Properties |                       |         |            |            |
| Nominal thickness     | $\mu$                 | 15.0    | PTL Method |            |
| Tensile strength      | MD kg/cm <sup>2</sup> | 2100    | ASTM D-882 |            |
|                       | TD kg/cm <sup>2</sup> | 2200    |            |            |
| Elongation at break   | MD %                  | 130     | ASTM D-882 |            |
|                       | TD %                  | 120     |            |            |

| Property                                  | Units                  |   | Nominal | Method          | Conditions            |
|---|------------------------|---|---------|-----------------|-----------------------|
| <b>Thermal Properties</b>                 |                        |   |         |                 |                       |
| Heat shrinkage                            | MD                     | % | 1.6     | ASTM D-1204     | 150 Deg. C/30 minutes |
|   | TD                     | % | 0.0     |                 |                       |
| <b>Surface Properties</b>                 |                        |   |         |                 |                       |
| Surface tension: chemically coated side   | dyne/cm                |   | 56      | ASTM D-2578     |                       |
| Surface tension: chemically uncoated side | dyne/cm                |   | 42      | ASTM D-2578     |                       |
| Co-efficient of friction static           |                        |   | 0.48    | ASTM D-1894     |                       |
| Co-efficient of friction dynamic          |                        |   | 0.44    | ASTM D-1894     |                       |
| <b>Physical/Chemical Properties</b>       |                        |   |         |                 |                       |
| Light transmission                        | %                      |   | 90      | ASTM D-1003     |                       |
| <b>Optical Properties</b>                 |                        |   |         |                 |                       |
| Haze                                      | %                      |   | 3.0     |                 |                       |
| Gloss at 60 Deg.                          | %                      |   | 170     | ASTM D523       |                       |
| <b>Barrier Properties</b>                 |                        |   |         |                 |                       |
| WVTR                                      | g/m <sup>2</sup> .Day  |   | 28      | ISO 15106-1: 03 | 23 Deg. 90% RH        |
| O2 Permeability                           | cc/m <sup>2</sup> .Day |   | 100     | ASTM D 3985-95  | 23 Deg. 0% RH         |

## Standard Roll Presentation

| Thickness | Core | Length | outside diameter |
|-----------|------|--------|------------------|
| μ         | mm   | m      | mm               |
| 15        | 152  | 9000   | 465              |
| 15        | 152  | 15000  | 585              |
| 15        | 152  | 18000  | 635              |

## Disclaimer

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