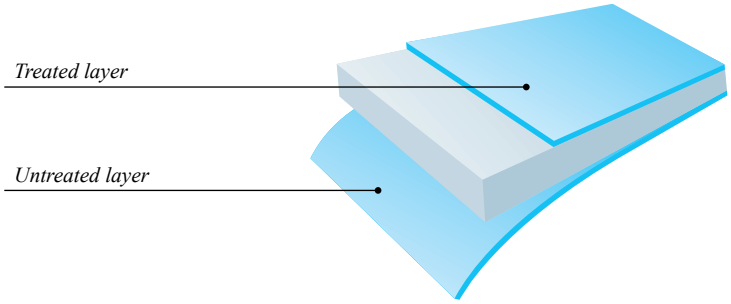
Manucor labels




# Technical Data Sheet

## Bi-Oriented PolyPropylene Film (BOPP)

**SL**

**15-57 microns**

**Transparent, non-coated, glossy, one-side treated film for Self Adhesive Labeling**

### Special Features

- Good gloss and transparency
- Good mechanical properties for robust handling during coating, die cutting and printing operations
- Excellent web flatness
- No migratory additives

### Typical Applications

*The treated layer should be top coated to ensure compatibility with a broad range of ink chemistries. For UV inks, additional in-line corona treatment is recommended. The untreated surface can be readily corona treated for pressure sensitive adhesives.*
*Consult your ink, coating and adhesive suppliers to verify compatibility.*

| Properties | Unit | Typical Values | | | | | | | | | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Thickness** | micron | 15 | 20 | 25 | 30 | 35 | 40 | 48 | 50 | 57 | Manucor - gravimetric |
| **Unit weight** | g/m² | 13.6 | 18.2 | 22.7 | 27.3 | 31.8 | 36.4 | 43.7 | 45.5 | 51.9 | Manucor - gravimetric |
| **Yield** | m²/kg | 73.6 | 54.9 | 44 | 36.6 | 31.4 | 27.5 | 22.9 | 22 | 19.3 | Manucor method |
| **Surface tension** | dynes/cm | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | ASTM D 2578 |
| **Haze** | % | 1.8 | 1.9 | 2 | 2.1 | 2.2 | 2.5 | 2.0 | 2.0 | 2.0 | ASTM D 1003 |
| **Gloss** | % | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | ASTM D 2457 45° |
| **Tensile strength at break (MD)** | N/mm² | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 130 | ASTM D 882 |
| **Tensile strength at break (TD)** | N/mm² | 290 | 290 | 290 | 290 | 290 | 290 | 300 | 300 | 300 | ASTM D 882 |
| **Elongation at break (MD)** | % | 180 | 180 | 180 | 180 | 180 | 180 | 200 | 200 | 200 | ASTM D 882 |
| **Elongation at break (TD)** | % | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | ASTM D 882 |
| **Tensile modulus of elasticity (MD)** | N/mm² | 1800 | 1850 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | ASTM D 882 |
| **Tensile modulus of elasticity (TD)** | N/mm² | 3800 | 3800 | 3800 | 3900 | 3900 | 3900 | 3900 | 3900 | 3900 | ASTM D 882 |
| **Shrinkage (MD)** | % | ≤5 | ≤5 | ≤5 | ≤5 | ≤5 | ≤5 | ≤5 | ≤5 | ≤5 | ASTM D 1204 120°C 5' |
| **Shrinkage (TD)** | % | ≤3 | ≤3 | ≤3 | ≤3 | ≤3 | ≤3 | ≤3 | ≤3 | ≤3 | ASTM D 1204 120°C 5' |

*Rev. Date 24/01/2018 - Please see our website www.manucor.com for the most updated version of this technical data sheet.*
*Disclaimer : Typical values describe useful product performance and are not intended for specification purposes.*