

## Kinlead PL13 Lamination Grade BOPP Plain Film (thickness: 15 Åµm)

Category : Polymer , Film , Thermoplastic , Polypropylene (PP) , Polypropylene, Film Grade

**Material Notes:**

PL13 is a woven bag lamination grade BOPP plain film. It is transparent and non heat sealable. It is excellent for extrusion lamination. One side has corona treatment. It is widely used in laminating with woven bags. Information provided by Kinlead.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kinlead-PL13-Lamination-Grade-BOPP-Plain-Film-thickness-15-m.php](http://www.lookpolymers.com/polymer_Kinlead-PL13-Lamination-Grade-BOPP-Plain-Film-thickness-15-m.php)

| Physical Properties               | Metric       | English     | Comments             |
|-----------------------------------|--------------|-------------|----------------------|
| Thickness                         | 15.0 microns | 0.591 mil   | Å± 3.5%; ASTM-252-78 |
| Linear Mold Shrinkage             | 0.040 cm/cm  | 0.040 in/in | ASTM-D1204           |
| Linear Mold Shrinkage, Transverse | 0.010 cm/cm  | 0.010 in/in | ASTM-D1204           |

| Mechanical Properties              | Metric  | English   | Comments           |
|------------------------------------|---------|-----------|--------------------|
| Film Elongation at Break, MD       | 160 %   | 160 %     | ASTM-D882          |
| Film Elongation at Break, TD       | 60 %    | 60 %      | ASTM-D882          |
| Coefficient of Friction            | 0.60    | 0.60      | T/T-US; ASTM-D1894 |
|                                    | 0.65    | 0.65      | T/O-US; ASTM-D1894 |
| Film Tensile Strength at Break, MD | 155 MPa | 22500 psi | ASTM-D882          |
| Film Tensile Strength at Break, TD | 280 MPa | 40600 psi | ASTM-D882          |

| Optical Properties    | Metric | English | Comments                              |
|-----------------------|--------|---------|---------------------------------------|
| Haze                  | 1.0 %  | 1.0 %   | ASTM-D1003                            |
| Gloss                 | 94 %   | 94 %    | ASTM-D2457                            |
| Transmission, Visible | 90 %   | 90 %    | transparent; thickness not quantified |

| Descriptive Properties | Value | Comments   |
|------------------------|-------|------------|
| Wetting Tension (Dyn)  | 39    | ASTM-D2578 |
| Yield (mÅ²/kg)         | 73.3  | Kinlead    |

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