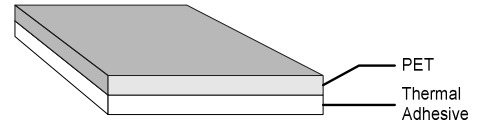


**Product Name: Flex Pack 1.3 PET**

**Description:** Flex Pack 1.3 is polyester based over-laminating film with a high performance, thermally activated adhesive. The product line was developed specifically for flexible packaging applications where a thermally applied surface lamination is preferred, such as digital flexible packaging applications. It is available in a high clarity gloss finish, as well as matte, satin, or our ProSoft soft touch finish.



**Features:**

- Construction: **48 ga. PET / Thermal Adhesive**
- Available in gloss, matte, satin, or our ProSoft soft touch finish.
- Outstanding performance as an over laminating film for HP Indigo and most other digital flexible packaging applications.
- The polyester is compliant for direct food contact under FDA21CFR177.1630
- The thermal adhesive is complaint under FDA21CFR177.1350

**Typical Properties**

| Property  | UOM                         | Gloss/Matte/Satin   | ProSoft    | Test Method |
|---|-----------------------------|---|------------|-------------|
| Average Thickness                                     | mil                         | 1.3   | 1.3        | ASTM D2103  |
| Thickness Tolerance                                   | +/- %                       | 10%   | 10%        |             |
| Unit Weight   | lbs/ream                    | 22.7  | 23.7       |             |
| Yield   | in <sup>2</sup> /lb         | 19,031  | 18,228     | ASTM D4321  |
| Haze  |                             | <3%   | <3%        | ASTM D1003  |
| Surface Tension (adhesive side)                       | dyne                        | >44   | >44        | ASTM D2578  |
| Tensile Strength                                      |                             | NA  | NA         | ASTM D882   |
| Elongation MD   |                             | NA  | NA         | ASTM D882   |
| Elongation TD   |                             | NA  | NA         | ASTM D882   |
| WVTR  | g/100 in <sup>2</sup> /day  | NA  | NA         |             |
| OTR   | cc/100 in <sup>2</sup> /day | NA  | NA         |             |
| COF   | sealant to self             | NA  | NA         | ASTM D1894  |
| Application Temperature                               | °F                          | 220 to 280  | 220 to 280 |             |
| Seal Strength (to self at 300°F, 70 PSI, 1.5 seconds) | g/in                        | >2,000  | >2,000     | ASTM F88    |
| Adhesion (PET to adhesive – 90° peel)                 | g/in                        | >200  | >200       |             |
| Shelf Life  |                             | 6 Months  |            |             |
| Storage Conditions                                    |                             | 70°F (20°C) - 50% humidity  |            |             |
| Chemical Resistance                                   |                             | PET generally stable and resistant to attack by oils, solvents, weak acids and weak alkalis |            |             |

*Contact your Protect-all, Inc. representative about custom structures or unique applications.*

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