

# TRANSPROP™ HS1WS-F

## DESCRIPTION:

TransProp HS1WS-F is a clear heat sealable one side polypropylene with a high energy flame treatment on the non-sealable side.

## CHARACTERISTICS:

- Very wide heat seal range
- Stable slip system on untreated sealant face
- High energy flame treated for excellent ink adhesion and adhesive and extrusion lamination bonds
- Superior optical properties
- Excellent flatness

## FDA STATUS:

Manufactured with materials compliant with FDA regulations.

## TECHNICAL DATA:

| PROPERTIES                 | UNIT OF MEASURE           | TYPICAL VALUES |         |         |         |         | TEST METHOD                 |
|----------------------------|---------------------------|----------------|---------|---------|---------|---------|-----------------------------|
|                            |                           | 70             | 80      | 90      | 100     | 120     |                             |
| Thickness                  | Gauge                     | 70             | 80      | 90      | 100     | 120     | -                           |
| Yield                      | in <sup>2</sup> /lb.      | 44,000         | 38,700  | 34,300  | 31,000  | 25,700  | -                           |
| Heat Seal Initiation       | Deg F                     | 200            | 200     | 200     | 200     | 200     | ½ sec, 30 PSI               |
| Tensile Strength MD        | psi                       | 17,000         | 17,000  | 17,000  | 17,000  | 17,000  | ASTM D882                   |
| Tensile Strength TD        | psi                       | 30,000         | 30,000  | 30,000  | 30,000  | 30,000  | ASTM D882                   |
| Elongation at Break MD     | %                         | 190            | 190     | 190     | 190     | 190     | ASTM D882                   |
| Elongation at Break TD     | %                         | 70             | 70      | 70      | 70      | 70      | ASTM D882                   |
| COF (NT/NT)                | Dynamic                   | 0.25           | 0.25    | 0.25    | 0.25    | 0.25    | ASTM D1894                  |
| COF (NT/NT)                | Static                    | 0.35           | 0.35    | 0.35    | 0.35    | 0.35    | ASTM D1894                  |
| Haze                       | %                         | 2.5-3.5        | 2.5-3.5 | 2.5-3.5 | 2.5-3.5 | 2.5-3.5 | ASTM D1003                  |
| Gloss (45 deg)             | G.U.                      | 85             | 85      | 85      | 85      | 85      | ASTM D2457                  |
| Surface Energy             | dyne/cm                   | 40             | 40      | 40      | 40      | 40      | ASTM D2578                  |
| WVTR                       | g/100in <sup>2</sup> /24h | 0.45           | 0.45    | 0.45    | 0.45    | 0.45    | ASTM F1249 100°F,<br>90% RH |
| Dimensional stability (MD) | %                         | <5             | <5      | <5      | <5      | <5      | 266°F, 5 min.               |
| Dimensional stability (TD) | %                         | <3             | <3      | <3      | <3      | <3      | 266°F, 5 min.               |

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