

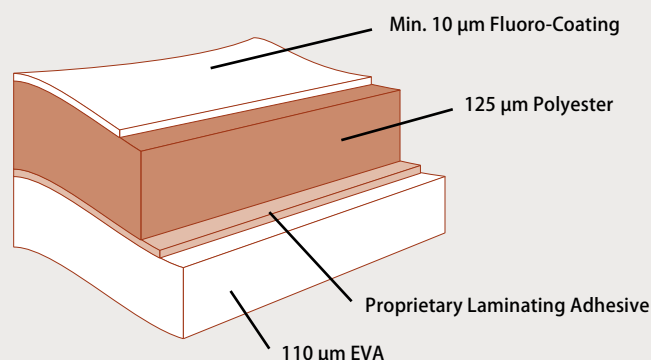
# HyTek™ Datasheet

The Next Generation in Protekt® Backsheets

## MATERIAL COMPOSITION

| TEST:                 | RESULTS:                  |
|-----------------------|---------------------------|
| Thickness             | 252 ± 25 µm               |
| Width Range           | 27 - 1700 mm              |
| Weight                | 320 ± 32 g/m <sup>2</sup> |
| Density               | 1.16 g/cm <sup>3</sup>    |
| Coating Color Options | White                     |
| EVA Color Options     | White, Black              |

FLUORO-COATING / PET / EVA



## TECHNICAL CHARACTERISTICS

| TEST:                              | TEST SPECIFICATION(S):                              | RESULTS:             |
|------------------------------------|---|----------------------|
| Tensile Strength at Break (MD)     | Internal Testing – Data Available                   | 100 MPa (MD)         |
| Elongation at Break (MD)           | Internal Testing – Data Available                   | 135% (MD)            |
| Tear Strength (MD/TD)              | Internal Testing – Data Available                   | 9 N (MD) / 15 N (TD) |
| Dimensional Stability              | 150°C for 30 min; Internal Testing – Data Available | ≤ 1.5%               |
| EVA Peel Strength from Encapsulant | Internal Testing – Data Available                   | ≥ 40 N/cm            |
| Peel Strength of Layers            | PET / EVA   | ≥ 5 N/cm             |

## FLAME RESISTANCE TESTING PERFORMANCE

| TEST:              | TEST SPECIFICATION(S):       | RESULTS: |
|--------------------|------------------------------|----------|
| Flame Spread Index | In accordance with ASTM E162 | 38       |

## WEATHERABILITY TESTING PERFORMANCE

| TEST:                        | TEST SPECIFICATION(S):                 | RESULTS:                                       |
|------------------------------|--|--|
| Relative Thermal Index (RTI) | Suitable for use at continuous 85°C    | 105°C  |
| Damp Heat Testing            | 85°C, 85% RH; IEC 61215                | 2000 Hours                                     |
| Heat Freeze Humidity         | In accordance with UL 1703, >10 cycles | >70% of initial mechanical properties retained |
| UV Stability                 | In accordance with UL 746C             | >70% of initial mechanical properties retained |
| MVTR                         | In accordance with ASTM F1249          | ≤ 2.5 g/m <sup>2</sup> per day                 |

## ELECTRICAL INSULATION TESTING PERFORMANCE

| TEST:             | TEST SPECIFICATION(S): | RESULTS:   |
|-------------------|------------------------|------------|
| Partial Discharge | IEC 60664-1            | > 1000 VDC |

This product is covered by one or more U.S. patents and pending U.S. and other patent applications. Please see [www.madico.com/patents](http://www.madico.com/patents) Typical Data – Not Specification © 2012 Madico, Inc.

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