

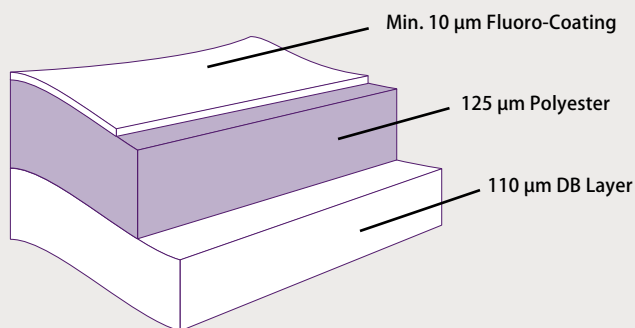
# Reflekt® Datasheet

Highly Reflective Backsheets based on Extrusion Technology

## MATERIAL COMPOSITION

| TEST:                 | RESULTS:               |
|-----------------------|------------------------|
| Thickness*            | 245 µm                 |
| Width Range           | 25-1830 mm             |
| Weight                | 315 g/m <sup>2</sup>   |
| Density               | 1.15 g/cm <sup>3</sup> |
| Coating Color Options | White                  |
| EVA Color Options     | White                  |

FLUORO-COATING / PET / DB LAYER



## 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  | 11 N (MD) / 11 N (TD) |
| Dimensional Stability              | 150°C for 30 min; Internal Testing – Data Available                          | <1.25%                |
| EVA Peel Strength from Encapsulant | Internal Testing – Data Available  | ≥ 40 N/cm             |
| Peel Strength of Layers            | PET/EVA  | ≥ 5 N/cm              |
| Reflectance Range                  | BYK Gardner Color-Sphere and Perkin-Elmer UV-Vis-NIR Lambda 950 spectrometer | >90%                  |

## 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 |

\*Theoretical nominal

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 © 2013 Madico, Inc.

Madico PhotoVoltaic Backsheets  
64 Industrial Parkway  
Woburn MA, 01801  
USA

Phone: 1-800-633-0140  
Fax: 1-781-935-6841  
Email: [InfoSF@madico.com](mailto:InfoSF@madico.com)  
[www.madicopv.com](http://www.madicopv.com)

PV0004 R04  
  
PV BACKSHEETS