

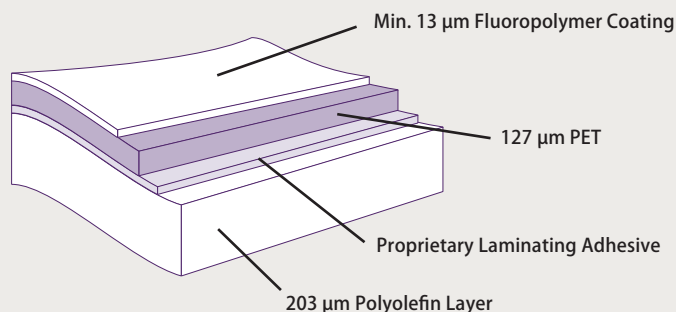
# Reflekt® Lean 300 Datasheet

Highly Reflective Backsheet for a Type 1 Module

## MATERIAL COMPOSITION

| TEST:                                | RESULTS:               |
|--------------------------------------|------------------------|
| Thickness*                           | 345 µm                 |
| Width Range                          | 25-1700 mm             |
| Weight                               | 412 g/m <sup>2</sup>   |
| Density                              | 1.15 g/cm <sup>3</sup> |
| Coating Color (air side)             | White, Charcoal        |
| Polyolefin Color Options (cell side) | All Colors**           |

FLUOROPOLYMER COATING / PET / POLYOLEFIN



## TECHNICAL CHARACTERISTICS

| TEST:                                     | TEST SPECIFICATION(S):                              | RESULTS:                  |
|---|---|---------------------------|
| Tensile Strength at Break (MD)            | Internal Testing – Data Available                   | 77 MPa (MD) / 83 MPa (TD) |
| Elongation at Break (MD)                  | Internal Testing – Data Available                   | 135% (MD) / 107% (TD)     |
| Dimensional Stability                     | 150°C for 30 min; Internal Testing – Data Available | 1.2 %                     |
| Polyolefin Peel Strength from Encapsulant | Internal Testing – Data Available                   | ≥ 40 N/cm                 |
| Peel Strength of Layers                   | PET/Polyolefin                                      | ≥ 5 N/cm                  |
| Relative Thermal Index (RTI)              | Suitable for continuous use at 85°C                 | 105°C                     |

## WEATHERABILITY TESTING PERFORMANCE

| TEST:                | TEST SPECIFICATION(S): | RESULTS:  |
|----------------------|------------------------|---|
| Damp Heat Testing    | 85°C, 85% RH IEC 61215 | ≥ 1000 Hours                                    |
| Heat Freeze Humidity | UL 1703, >10 cycles    | ≥ 70% of initial mechanical properties retained |
| UV Stability         | UL 746C                | ≥ 1000 Hours                                    |
| MVTR                 | ASTM F1249             | ≤ 1.5 g/m <sup>2</sup> per day                  |

## ELECTRICAL INSULATION TESTING PERFORMANCE

| TEST:             | TEST SPECIFICATION(S): | RESULTS:   |
|-------------------|------------------------|------------|
| Partial Discharge | IEC-60664, IEC-61730   | ≥ 1000 VDC |

\*Theoretical nominal

\*\*Use of Non-white Polyolefin will not provide the specified reflectance

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 © 2015 Madico, Inc.

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