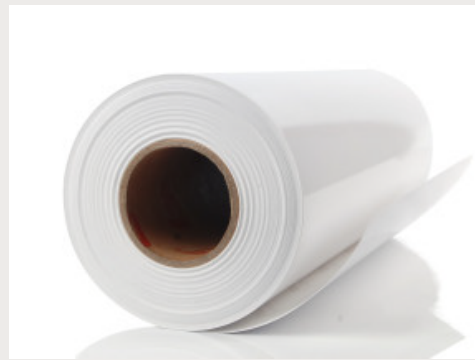


# PhotoMark® Reflections™ Datasheet

## OVERVIEW

What's better than a durable backsheet with no PET or Fluoropolymers? How about a durable backsheet with no interlayer adhesives?

That's right – Tomark-Worthen has created a revolutionary new backsheet based on a proprietary polyamide alloy that is weatherable, dimensionally stable and cost effective - and it does not contain any Fluoropolymer or PET layers and does not use any adhesives! Our backsheet is not susceptible to hydrolysis or UV degradation.



## TESTING PERFORMANCE

Voltage Rating	>1,000	>1,000	>1,000	>1,500
Weight	217 g/m <sup>2</sup>	244 g/m <sup>2</sup>	270 g/m <sup>2</sup>	380 g/m <sup>2</sup>
EVA Peel Strength	> 70 N/cm	> 70 N/cm	> 70 N/cm	> 70 N/cm
Thickness	205 µm	225 µm	255 µm	360 µm
Shrinkage after 30 min at 150°C	0.80% / 0.40% (MD/TD)	0.80% / 0.40% (MD/TD)	0.80% / 0.40% (MD/TD)	0.80% / 0.40% (MD/TD)
Dielectric Breakdown	17.8 KVDC	19.9 KVDC	22.1 KVDC	31.2 KVDC
Comparative Testing Index (CTI)	600 V	600 V	600 V	600 V
Relative Thermal Index (RTI)	110 °C	110 °C	110 °C	110 °C
MVTR	2.27 g/m <sup>2</sup> /day	2.24 g/m <sup>2</sup> /day	1.56 g/m <sup>2</sup> /day	2.76 g/m <sup>2</sup> /day
Damp Heat Testing	≥ 2000 hours	≥ 2000 hours	≥ 2000 hours	≥ 2000 hours
Heat Freeze Humidity	Pass	Pass	Pass	Pass
UV Stability	> 2000 hours	> 2000 hours	> 2000 hours	> 2000 hours
Volume Resistivity	1.4 x 10 <sup>16</sup> Ω/cm	1.4 x 10 <sup>16</sup> Ω/cm	1.4 x 10 <sup>16</sup> Ω/cm	1.4 x 10 <sup>16</sup> Ω/cm
Reflectivity	91.2 %	91.2 %	91.2 %	91.2 %
Colors (front/back)	Wht/Wht, Blk/Blk	Wht/Wht, Blk/Blk	Wht/Wht, Blk/Blk	Wht/Wht, Blk/Blk
Roll Sizes (width)	50cm-140cm	50cm-140cm	50cm-140cm	50cm-140cm
Distance Through Insulation (DTI)	Pass	Pass	Pass	Pass

\*Theoretical nominal

This product is covered by one or more U.S. patents and pending U.S. and other patent applications.  
Typical Data - Not Specification



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