

## ULTRAMET® WR HB METALLIZED POLYESTER FILM

**Metallized One Side, Corona Treated Other Side  
Improved Metal Adhesion and Water Resistance**

A high-adhesion, metallized biaxially oriented polyester film. ULTRAMET WR HB PET is for demanding applications that require ultra-high metal to PET adhesion and great water resistance properties. Consistently good handling properties, heat stability, slip, and high tensile strength for easy lamination. High WVTR, OTR, and light barrier properties.

Properties	Typical Value	Units	Test Method
<b>Yield</b>	41,600	in <sup>2</sup> /lb	
<b>Standard Gauge</b>	0.48	Mil	
<b>Tensile Strength</b>	29,000 MD 31,000 TD	psi	ASTM D882
<b>Elongation</b>	140 MD 110 TD	%	ASTM D882
<b>Optical Density</b>	2.0	Tobias Densitometer	CMP OD-1
<b>Light Transmission</b>	1.0	%	
<b>MVTR</b>	0.03	g/100in <sup>2</sup> /24 hr.	ASTM E-398 (100° F, 90% RH)
<b>OTR</b>	0.03	cc/100in <sup>2</sup> /24 hr.	ASTM D-3985 (73.4° F, 50% RH)
<b>Metal Adhesion</b>	>1000* >500**	g/in	CMP MA-1 CMP MA-2
<b>Coefficient of Friction</b>	0.40 0.50	Kinetic Static	ASTM D-1894
<b>Water Immersion</b>	No Degradation***		CMP WI-1

\*Certified metal adhesion value

\*\*Value in solvent-based adhesive lamination (PET/Metal/Adhesive/PET)

\*\*\*Observed after being completely submerged in water for 24 hours at 23°C

The polyester side is in compliance with the regulation FDA 21 CFR 177.1630 (f, g, h) and EU Directive 2002/72 and 2011/10.

The information and opinions herein are believed to be true and accurate. No recommendation for use of our product is intended as a patent infringement. No warranty of any kind with respect to patents held by others is implied or intended.