

# Verdafresh™ BOPP

Verdafresh BOPP is an optimized printing substrate with outstanding clarity, stiffness, flexibility, tensile strength, and exceptional barrier properties. The structure comprises biaxially-oriented polypropylene film and the Verdafresh barrier coating. The coating is compatible with various printing techniques and can be laminated with a PP sealant web to form a 98+% PP mono-material film structure. Verdafresh BOPP is suitable for products requiring high barrier packaging, such as snack bars and bakery mixes, and is especially ideal for thin-gauge applications.

## Physical Properties

Property	Test Method	Unit of Measure	Typical Value
<b>Gauge</b>	Caliper	mil	<b>Available 0.9-1.2</b>
<b>Haze</b>	D-1003	%	<b>1.3 - 2.3</b>
<b>Tensile Strength MD</b>	ASTM D882	psi	<b>22,760</b> <i>varies based on thickness</i>
<b>Tensile Strength TD</b>	ASTM D882	psi	<b>41,250</b> <i>varies based on thickness</i>
<b>Elongation (MD)</b>	ASTM D882	%	<b>160 (maximum)</b>
<b>Elongation (TD)</b>	ASTM D882	%	<b>50-70</b>
<b>Shrinkage (MD)</b>	120 deg C 5 min	%	<b>&lt;5</b>
<b>Shrinkage (TD)</b>	120 deg C 5 min	%	<b>&lt;3</b>
<b>OTR @ 0% RH</b>	ASTM D3985	cc / 100 in <sup>2</sup> / 24hrs	<b>0.08</b>
<b>OTR @ 50% RH</b>	ASTM D3985	cc / 100 in <sup>2</sup> / 24hrs	<b>0.10</b>



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Purchasers of this film are permitted to display the Verdafresh "Recycle Ready Protective Packaging" logo on their packages.

