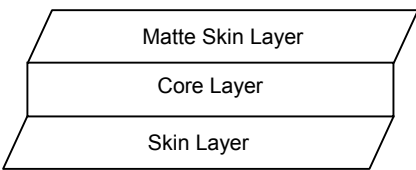


# MAT

## MATTE BOPP

### CONSTRUCTION

 <p>Matte Skin Layer Core Layer Skin Layer</p>	<p>Untreated. One side matte, other side high gloss film for lamination applications.</p>
---	---

### FEATURES AND APPLICATIONS

<p>Non heat sealable, one side matte finish surface. Excellent dimensional stability and moisture barrier. Matte surface reduces glare for easy viewing. Produced from FDA approved resins.</p>
---

### SPECIFICATIONS

Gauge	Yield (in <sup>2</sup> /lb)	3" core, 13" Ø (Linear ft)	6" core, 21" Ø (Linear ft)
60	51,300	17,100	42,700
80	38,700	12,800	32,000
Approx weight per 1" width		4.11 lbs	10.29 lbs

PROPERTIES				
Parameters	Unit	Matte BOPP		Test Method
Thickness	micron	15	20	ASTM E 252
	gauge	60	80	
Specific Gravity	g/cm <sup>3</sup>	0.906		ASTM D 1505
Yield	m <sup>2</sup> /kg	73.5	55.2	ASTM D 4321
	in <sup>2</sup> /lbs	51,300	38,700	
Haze	%	50 ± 5		ASTM D 1003
Gloss	Glossy side	%	53 ± 3	ASTM D 2457
	Matte Side	%	11.5 ± 1	
Moisture Barrier (WVTR)	g/m <sup>2</sup> /day	3.5	3.0	ASTM E 96 (100° F @ 90% RH)
	g/100 in <sup>2</sup> /day	0.23	0.19	
Coefficient of Friction (COF)	Film to Film	< 0.45		ASTM D 1894
	Film to Metal	< 0.30		
Tensile Strength	kg/mm <sup>2</sup>	MD	12 ± 2	ASTM D 882
		TD	27 ± 5	
	lbs/in <sup>2</sup>	MD	17,000 ± 2,800	
		TD	44,000 ± 2,800	
Elongation at Break	%	MD	170 ± 30	ASTM D 882
		TD	45 ± 10	
Dimensional Stability	%	MD	< 3.0	ASTM D 1204 (5 min @ 248° F air)
		TD	<1.0	
Surface Tension	dynes/cm	>38		ASTM D 2578
Heat Shrinkage	%	MD	< 5.0	(7 min @ 266° F air)
		TD	< 3.0	

The above information is the result of laboratory tests, which are applied on samples from standard production. Since the varying conditions under which our products used are beyond our control, all of the above results are without guarantee and warranty. Users are advised to conduct their own testing of our products to determine suitability for use alone or in combination with other products.

CERTIFICATIONS
Films comply with the requirements of FDA regulations CFR, Title 21 177.1520 (a)(1), (b) and (c)1.1 Olefin polymers, covering the safe use of polypropylene in articles intended for food contact. All films are produced in ISO 9001 certified facilities and have been approved by the American Baking Institute (AIB).

PRODUCT SAFETY
For more information about our product, please read our Material Safety Data Sheet (MSDS).