

BOPP Synthetic Paper

-----Advertising material film

● LG Series

Properties:

- double sided glossy
- color: white and opaque
- density: 0.55-0.60 g/cm³
- single side corona treatment
- main thickness: 65um , 75um , 100um , 110um , 120um , 140um

Typical values:

Testing items		Unit	Testing Method	Requirement
Thickness		μm	GB/T 6672-2001	64-141 Markov Control 62-138
Density		g/cm ³	GB/T 6343-2009/ISO 845:2006	0.55-0.60
Tensile strength at break	MD≥	Mpa	GB/T 1040.3-2006/ISO 527-3:1995	40
	TD≥	Mpa		95
Elongation at break	MD≤	%		165
	TD≤	%		30
Heat shrinkage 120°/2min	MD≤	%	BB/T 0002-2008	2.5
	TD≤	%		1.5
Gloss (60°∠)	≥	%	GB 8807-88	87
Haze	≥	%	GB/T 2410-2008	95
Light transmittance	≤	%		18
Whiteness (10layers)	Corona side ≥	%	/	88(-3+2)
Tension of corona treatment	≥	Dyn/cm	GB/T 14216-2008/ISO 8296:2003	43

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● LM Series

Properties:

- one side glossy and the other side one side matte
- color: white and opaque
- density: 0.55-0.60 g/cm³
- double-sided corona treatment
- Matte side is used for further coating and the glossy side is for gluing
- main thickness: 75um, 85um, 120um, 145um, 170um

Typical values:

Testing items		Unit	Testing Method	Requirement
Thickness		μm	GB/T 6672--2001	74-171
Density		g/cm ³	GB/T 6343-2009/ISO 845:2006	0.55-0.60
Tensile strength at break	MD≥	Mpa	GB/T 1040.3-2006/ISO 527-3:1995	40
	TD≥	Mpa		95
Elongation at break	MD≤	%		165
	TD≤	%		30
Heat shrinkage 120°C/2min	MD≤	%	BB/T 0002-2008	2.5
	TD≤	%		1.5
Gloss 60°∠	Glossy side ≥	%	GB 8807-88	85
	Matte side ≤	%		10
Haze	≥	%	GB/T 2410-2008	90
Light transmittance	≤	%		20
Whiteness (10 layers)	≥ (Glossy side)	%	/	88(-3+2)
	≥ (Matte side)	%		92±2
Tension of glossy side	≥	Dyn/cm	GB/T 14216-2008/ISO 8296:2003	38
Tension of matte side	≥	Dyn/cm		43

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● PNA Series

Properties:

- double sided glossy
- color: white and opaque
- UV-resistant
- density: 0.55-0.60 g/cm³
- single side corona treatment
- main thickness: 100-140um

Typical values:

Testing items		Unit	Testing Method	Requirement
Thickness		μm	GB/T 6672-2001	100-140
Density		g/cm ³	GB/T 6343-2009/ISO 845:2006	0.55-0.60
Tensile strength at break	MD≥	Mpa	GB/T 1040.3-2006/ISO 527-3:1995	40
	TD≥	Mpa		95
Elongation at break	MD≤	%		165
	TD≤	%		30
Heat shrinkage 120°/2min	MD≤	%	BB/T 0002-2008	2.5
	TD≤	%		1.5
Gloss60° ∠	≥	%	GB 8807-88	87-90
Whiteness	≥	Single layer	/	85
	≥	10 layers		90(-3+2)
Haze	≥	%	GB/T 2410-2008	95
Light transmittance	≤	%		8
Tension of corona treatment	≥	Dyn/cm	GB/T 14216-2008/ISO 8296:2003	43

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● FM Series

Properties:

- one side glossy and the other side matte
- color: white and opaque
- density: 0.62-0.64 g/cm³
- double side corona treatment
- Matte side is used for coating and the glossy side is for gluing
- main thickness: 100-140um

Typical values:

Testing items		Unit	Testing Method	Requirement
Thickness		μm	GB/T 6672-2001	100-140
Density		g/cm ³	GB/T 6343-2009/ISO 845:2006	0.62-0.64
Tensile strength at break	MD≥	Mpa	GB/T 1040.3-2006/ISO 527-3:1995	40
	TD≥	Mpa		95
Elongation at break	MD≤	%		165
	TD≤	%		30
Heat shrinkage 120°/2min	MD≤	%	BB/T 0002-2008	2.5
	TD≤	%		1.5
Whiteness(single layer / 10 layers)	≥ (Glossy side)	%	/	88(-3+2)
	≥ (Matte side)	%		92±2
Gloss (60° ∠)	Glossy side ≥	%	GB 8807-88	89
	Matte side ≤	%		7
Haze	≥	%	GB/T 2410-2008	80
Light transmittance	≤	%		9
Tension of corona treatment for one side	≥	Dyn/cm	GB/T 14216-2008/ISO 8296:2003	39
Tension of corona treatment for the other side	≥	Dyn/cm		43