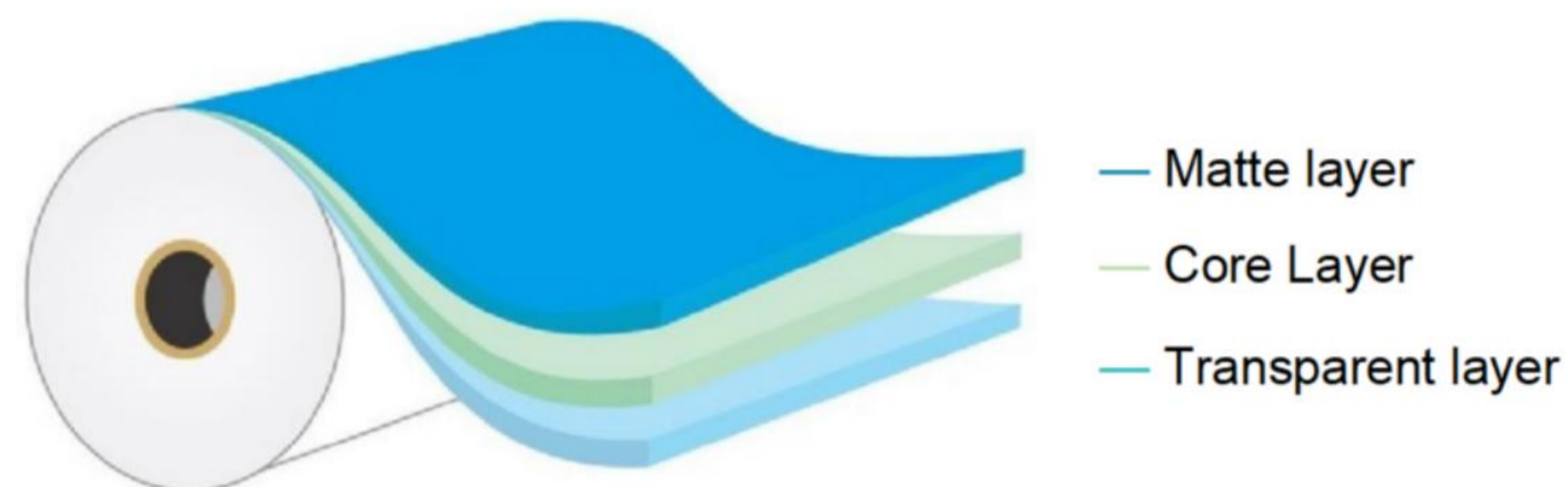


# Matte Lamination Film

## 22D 18 $\mu$ m

### Technical Data

#### Structure



#### Description

Matte film with single-side matte finish and low static properties; double-side corona treated with stronger treatment on the inner side for enhanced adhesion and surface energy.

#### Application

Used for lamination of printed and unprinted paper and paperboard to produce premium items such as shopping bags, book covers, and wine boxes, enhancing durability and aesthetic appeal.

Properties	Ref.	Units	ASTM #/ Test Method	22D				
<b>Physical Data</b>								
Average Thickness		micron	D-374-C	10	12	15	18	20
		gauge		39	47	59	71	79
		mils		0.4	0.5	0.6	0.7	0.8
Thickness Variation		%(±)		3				
Density		g/cc		0.840				
Average Substance		g/m		9.1	10.9	13.6	16.3	18.1
Surface tension(min)	in	dynes/cm	D-2578	≥38				
	out			≥36				
Kinetic COF	UT-UT		D-1894	0.30-0.35				
Yield		m <sup>2</sup> /Kg	D-4321	110.5	92.1	73.7	61.4	55.2
		in <sup>2</sup> /lb	D-4321	77687	64739	51792	43160	38844
<b>Optical Data</b>								
Gloss(45)		gardner	D-2457	≤11				
Haze		%	D-1003	≥75				
<b>Mechanical Data</b>								
Tensile Strength	MD	kg/cm	D-882	110-150				
	TD			210-300				
Elongation at break	MD	%	D-882	140-180				
	TD			50-65				
<b>Thermal Data</b>								
Shrinkage (120°C/248F,5 min.)	MD	%	D-1204	2.0-4.5		2.0-4.0		
	TD			1.0-2.0		1.0-2.0		
Seal Initiation Temp	UT	°C/F	CTM	≥130				
SIT Variation(±)		°C/F	CTM	>5				
Heat Seal Strength	UT	g/15mm	CTM	>205				
HotTack Strength		g/15 mm	@125°C	330			350	
			@257°F					
<b>Barrier Data</b>								
MVTR(38°C,90%RH)		g/(m <sup>2</sup> ·day)	F-1249	6.7-12		5.0-8.0		
MVTR(10B,90%RH)		g/100i/day		0.43~0.77		0.32~0.52		

The values given in the above table are typical performance data for reference only.  
If you have special requirements for product performance indexes, please communicate with business manager.

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