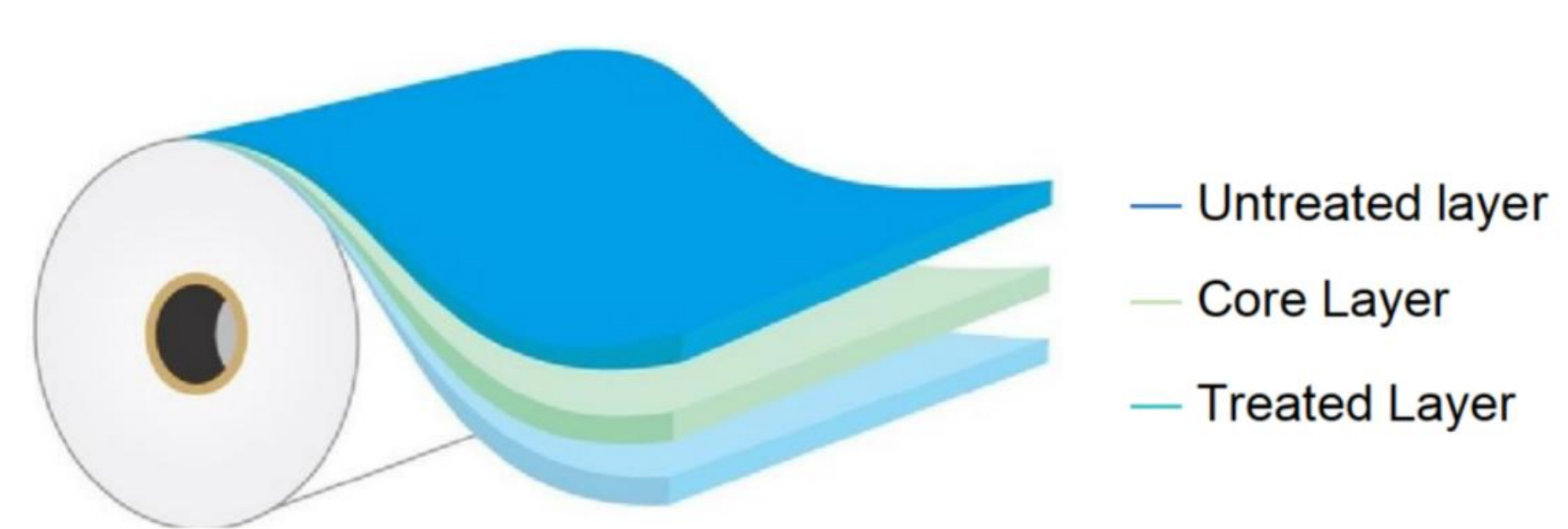


# Transparent Printing Packaging Film

## 11P 50μm

### Technical Data

#### Structure



#### Description

Transparent non-heat sealable film with inner-side corona treatment, ensuring a surface energy of  $\geq 38$  dyn/cm for improved adhesion and printability.

#### Application

Intended for lamination with other substrates post-printing; supports 6 to 8-color printing; not compatible with full-area printing.

Properties	Ref.	Units	ASTM #/ Test Method	11P											
<b>Physical Data</b>															
Average Thickness		micron	D-374-C	12	15	17	18	20	25	28	30	40	50		
		gauge		47	59	67	71	79	98	110	118	157	197		
		mils		0.5	0.6	0.7	0.7	0.8	1.0	1.1	1.2	1.6	2.0		
Thickness Variation		%(±)		3											
Density		g/cc		0.905											
Average Substance		g/m		10.9	13.6	15.4	16.3	18.1	22.6	25.3	27.2	36.2	45.3		
Surface tension(min)		dynes/cm	D-2578	$\geq 38$											
Kinetic COF	UT-UT		D-1894	0.20-0.35											
Yield		m <sup>2</sup> /Kg	D-4321	92.1	73.7	65.0	61.4	55.2	44.2	39.5	36.8	27.6	22.1		
		in <sup>2</sup> /lb	D-4321	64739	51792	45698	43160	38844	31075	27745	25896	19422	15537		
<b>Optical Data</b>															
Gloss(45)		gardner	D-2457	$\geq 90$											
Haze		%	D-1003	$\leq 2.0$											
<b>Mechanical Data</b>															
Tensile Strength		kg/cm	D-882	120-160											
				230-320											
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											
	TD			1.0-2.0											
HotTack Strength		g/15mm	@125°C	330					350			380			
			@257°F												
<b>Barrier Data</b>															
MVTR(38°C,90%RH)		g/(m <sup>2</sup> ·day)	F-1249	6.0~8.8			4.0~6.5			2.5~4.0			1.2~2.6		
MVTR(10B,90%RH)		g/100i/day		0.39~0.56			0.26~0.42			0.16~0.26			0.08~0.17		

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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