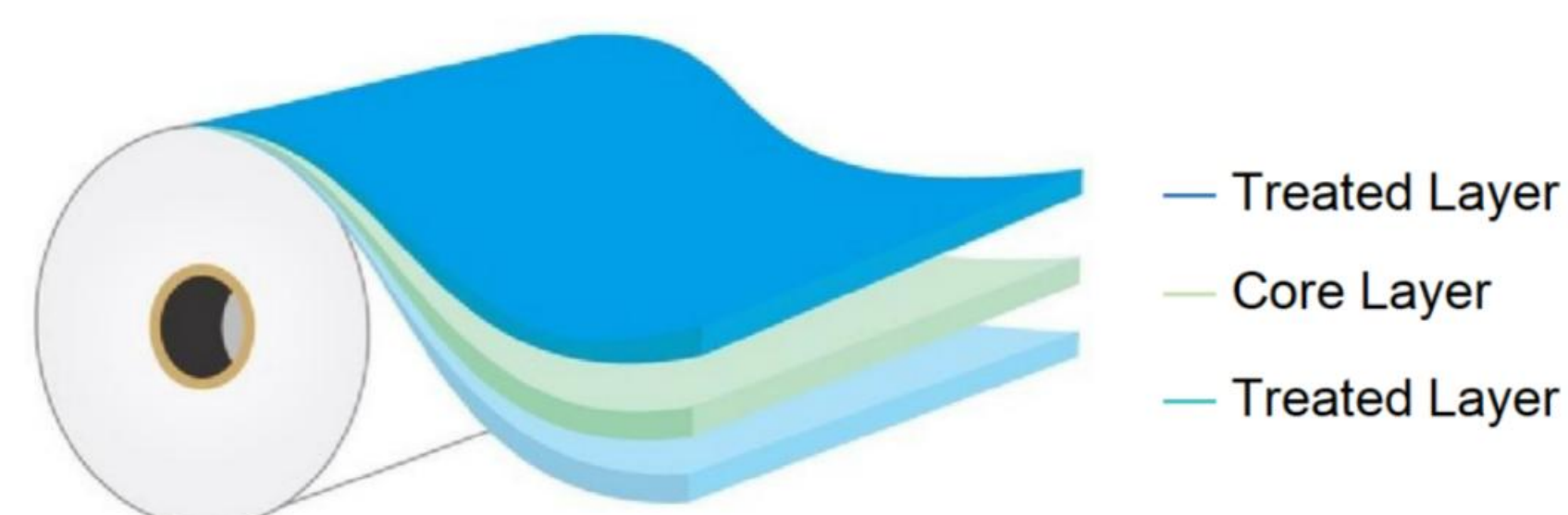


Transparent Lamination Film

12S

Technical Data

Structure



Description

Transparent, non-heat sealable film with low static properties; double-side corona treated with stronger treatment on the inner surface to enhance printability and adhesion.

Application

Designed for lamination with printed or unprinted paper and paperboard, enhancing gloss and scuff resistance for cartons, gift boxes, and similar packaging applications.

Properties	Ref.	Units	ASTM #/ Test Method	12S						
Physical Data										
Average Thickness		micron	D-374-C	8	10	12	15	18	20	30
		gauge		31	39	47	59	71	79	118
		mils		0.3	0.4	0.5	0.6	0.7	0.8	1.2
Thickness Variation		%(±)		5			3			
Density		g/cc		0.905						
Average Substance		g/m		7.2	9.1	10.9	13.6	16.3	18.1	27.2
Surface tension(min)	IN	dynes/cm	D-2578	≥38						
	OUT			≥36						
Kinetic COF	UT-UT		D-1894	0.20-0.35						
Yield		m ² /Kg	D-4321	138.1	110.5	92.1	73.7	61.4	55.2	36.8
		in ² /lb	D-4321	97109	77687	64739	51792	43160	38844	25896
Optical Data										
Gloss(45)		gardner	D-2457	≥90						
Haze		%	D-1003	≤2.1			≤1.9			
Mechanical Data										
Tensile Strength	MD	kg/cm	D-882	120-160						
	TD			230-320						
Elongation at break	MD	%	D-882	140-180						
	TD			40-55			50-65			
Thermal Data										
Shrinkage (120°C/248F,5 min.)	MD	%	D-1204	3.0-5.0	2.0-4.5		2.0-4.0			
	TD			1.5-2.5	1.0-2.0		0.5-2.0			
HotTack Strength		g/15mm	@125°C	330				350		
			@257°F							
Barrier Data										
MVTR(38°C,90%RH)		g/(m ² ·day)	F-1249	6.0~13.1			4.0~6.5		2.5~3.3	
MVTR(10B,90%RH)		g/100i/day		0.39~0.85			0.26~0.42		0.16~0.2	

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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