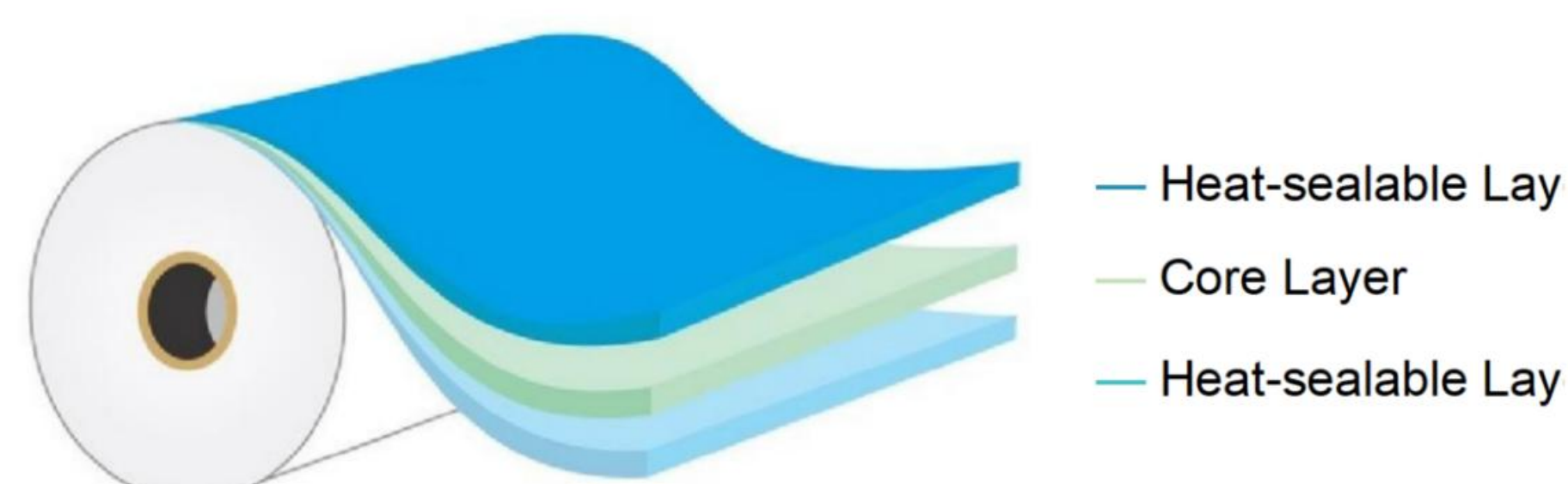


# Double-sided Heat-sealable Film

## 11H 20μm

### Technical Data

#### Structure



#### Description

Transparent film, double-side heat-sealable with heat seal initiation temperature  $\geq 115^{\circ}\text{C}$ ; higher seal strength on the outer base film side; high surface wetting tension; inner-side corona treated.

#### Application

Designed for simple surface printing on cubic or pillow-type packages, this film offers excellent print adhesion and compatibility with VFFS and HFFS packaging equipment, ensuring efficient production and clear graphics.

Properties	Ref.	Units	ASTM #/ Test Method	11H					
<b>Physical Data</b>									
Average Thickness		micron	D-374-C	15	20	25	30	35	40
		gauge		59	79	98	118	138	157
		mils		0.6	0.8	1.0	1.2	1.4	1.6
Thickness Variation		%(±)		3					
Density		g/cc		0.910					
Average Substance		g/m		13.6	18.1	22.6	27.2	31.7	36.2
Surface tension(min)		dynes/cm	D-2578	$\geq 38$					
Kinetic COF	UT-UT		D-1894	0.40-0.60					
Yield		m <sup>2</sup> /Kg	D-4321	73.7	55.2	44.2	36.8	31.6	27.6
		in <sup>2</sup> /lb	D-4321	51792	38844	31075	25896	22196	19422
<b>Optical Data</b>									
Gloss(45)		gardner	D-2457	$\geq 90$					
Haze		%	D-1003	$\leq 3.0$					
<b>Mechanical Data</b>									
Tensile Strength	MD	kg/cm	D-882	120-160					
	TD			230-300					
Elongation at break	MD	%	D-882	150-200					
	TD			45-65					
<b>Thermal Data</b>									
Shrinkage (120°C/248F,5 min.)	MD	%	D-1204	2.0-4.0					
	TD			1.0-2.5					
Seal Initiation Temp	UT	°C/F	CTM	115-130					
SIT Variation(±)		°C/F	CTM	5					
Heat Seal Strength	UT	g/15mm	CTM	$\geq 255$					
HotTack Strength		g/15mm	@125°C	330				350	
			@257°F						
<b>Barrier Data</b>									
MVTR(38°C,90%RH)		g/(m <sup>2</sup> ·day)	F-1249	5.5-9.0		3.5-6.0		2.5-4.5	
MVTR(10B,90%RH)		g/100i/day		0.35-0.58		0.23-0.39		0.16-0.29	

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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