

FOAM BOARD

TECHNICAL SHEET

Foam core: Polystyrene			
-G.P.P.S (General Purpose Polystyrene) resin			
-Grade: 25SPE			
-Application & Feature: Panel, Food containers under the food and health standard of FDA in USA, Electric components and Coating			
	Item	Unit	Value
Physical	Melt Index (ASTM D1238)	g/10min.	3
	Mold Shrinkage (ASTM D955)	%	0.4 ~ 0.8
Mechanical	Tensile Strength (ASTM D638)	kg/cm ²	530
	Tensile Modulus (ASTM D638)	kg/cm ²	29,400
	Elongation at Break (ASTM D638)	%	4
	Flexural Strength (ASTM D790)	kg/cm ²	1,000
	Flexural Modulus (ASTM D790)	kg/cm ²	33,300
	Izod Impact Strength (ASTM D256)	kg.cm/cm	1
	Rockwell Hardness (ASTM D785) *T.C.: R-scale		120
Thermal	Heat Deflection Temp (ASTM D648)	°C	88
	Vicat Softening Temp. (ASTM D1525)	°C	103
Flammability	Test UL 94	class	HB
	Test IEC 707	min/min	FH3-28

Standard liners: Paper clay coated				
- Grade: 120/150/200 GSM matte art				
- Application & Feature: Printing/writing paper clay coated				
Item	Unit	Value		
		120GSM	150GSM	200GSM
Basis Weight	g/m ²	120±3%	150±3%	200±5%
Caliper	µm	112±3%	143±3%	202±5%
Smoothness	sec	100 ↑	90 ↑	50 ↑
pH Value		7.2	7.2	7.2
Whiteness	%	126±3%	130±3%	126±3%
Brightness	%	100±3%	102±3%	100±3%
Ref.- 100% virgin pulp with chemical treatment				
- No lignin contained				
- Pulp: US Northern Mix, US Southern Mix, Aspen				
- Paper composition: Pulp, Filler, Additives				

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Film liners for digital printing: PE matte film

- Thickness: 25 μm
- Finish: On standard paper liners

Aluminum liners

- Aluminum thickness : 6.3 μm
- White film thickness (SOL) : 25 μm
- Application & Feature: Heavy-duty mounting

Item	Unit	SOL		PM	
		Value		Value	
		Paper	Aluminum	Paper (Acid-	Aluminum
Basis Weight	g/m ²	200±5%	0.01878±3	90±3%	0.01878±3
Caliper	μm	202±5%	6.3±5%	103±3%	6.3±5%
Smoothness	sec	50 ↑		60 ↑	
pH Value		7.2	7.5 ~ 8.5	6.7	7.5 ~ 8.5
Whiteness	%	126±3%		112±3%	
Brightness	%	100±3%		98±3%	

- Ref.- 100% virgin pulp with chemical treatment
- No lignin contained
 - Pulp: US Northern Mix, US Southern Mix, Aspen
 - Paper composition: Pulp, Filler, Additives

Acid-free liners: Paper uncoated

- Grade: 120/150 GSM wood free
- Application & Feature: Printing/writing paper semi-grazed

Item	Unit	Value	
		120GSM	150GSM
Basis Weight	g/m ²	120±3%	150±4%
Caliper	μm	139±3%	162±3%
Smoothness	sec	45 ↑	30 ↑
pH Value		6.7	6.7
Whiteness	%	112±3%	100±5%
Brightness	%	98±3%	98±2%

- Ref.- 100% virgin pulp with chemical treatment
- No lignin contained
 - Pulp: US Northern Mix, US Southern Mix, Aspen
 - Paper composition: Pulp, Filler, Additives



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Color liners: Paper uncoated

- Grade: 120 GSM wood free
- Application & Feature: Point of purchase displays

Item	Unit	Value
Basis Weight	g/ m ²	120±5%
Caliper	μm	160±10%
Smoothness	sec	20 ↑
Surface pH		7.2

- Ref.- 100% virgin pulp with chemical treatment
- No lignin contained
 - Pulp: US Northern Mix, US Southern Mix, Aspen
 - Paper composition: Pulp, Filler, Additives

Glue

- Glue applied to paper lamination on foam core
- Glue applied to Self-Adhesive

Item	Glue for lamination of paper on foam core	Glue for Self-Adhesive
Appearance	Milky white emulsion	Yellow transparent viscous
Non-volatile(WT%)	50±1%	62±2%
Viscosity	1500~2000(CPS/23℃)	4000±500(CPS/25℃)
pH	7	4
Main composition	Vinyl Acetate Monomer Vinyl Acetate Copolymer	Acrylic ester copolymer Ethyl Acetat, Toluene
Solubility in water	Dilute	Solvent-solution
Basis Weight (g)	25 ~ 35	35 ~ 45
Caliper (μm)	20 ~ 30	40 ~ 50
Release paper weight (g)		150±3
Release paper caliper (μm)		160±3

Dimensional tolerances

- Thickness: + - 0.5mm (1/50")
- Length and Width: + - 2.1mm (1/12")
- Squareness: Diagonals within 3.2mm (1/8")
- Flatness (Standard liners) : Bend of 10 degrees compared to straight line
- Flatness (Adhesive liners) : Bend of 15 degrees compared to straight line