

Technical specification sheet

Ball & Doggett
ballanddoggett.com.au

Product: Pop Foam Board

FOAM BOARD

Category: Sign, Display & Digital - Rigid

Technical specifications:

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

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	um	139±3%	162±3%
Smoothness	sec	451	301
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

Film liners for digital printing: PE matte film
- Thickness: 25 um
- Finish: On standard paper liners

Aluminum liners					
- Aluminum thickness : 6.3 um					
- White film thickness (SOL) : 25um					
- 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	um	202±5%	6.3±5%	103±3%	6.3±5%
Smoothness	sec	501		601	
pH Value		7.2	7.5 ~ 8.5	6.7	7.5 ~ 8.5
Whiteness	%	126±3%		112±3%	
Brightness	%	100±3%		98±3%	
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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	um	160±10%
Smoothness	sec	201
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

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: + - 0.5 ~ 1mm

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

Conversion⁺

- | | |
|---|---|
| ☐ Flat bed cutters | ☐ Cold overlaminating |
| ☐ Friction fed | ☐ Aqueous |
| ☐ cutters Die cutting | ☐ Latex inkjet |
| ☐ Thermal transfer | ☐ Eco Solvnt inkjet |
| ☒ Screen printing | ☐ Solvent inkjet |
| ☐ Offset printing | ☒ UV curable Inkjet |

*Always test with your combination of printer and inks prior to commercial use.

Sheet Sizes

142137 - 1220x2440mm, White Matt, 5mm
118297 - 1530x3050mm, White Matt, 5mm
142138 - 1220x2440mm, White Matt, 10mm
118298 - 1530x3050mm, White Matt, 10mm
116157 - 1220x2440mm, White Matt, 20mm

105095 - 1220x2440mm, Black, 5mm
128232 - 1220x2440mm, Black, 10mm

Common Applications

Point of Purchase displays	Mounting
Visual Displays	Indoor Applications
Advertising	
Stationary / Framing Industry	