

Jain Americas, Inc.

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EXCEL INTEGRAL (IF) PVC FREE FOAM SHEET ASTM REFERENCE SHEET

Excel IF PVC Free Foam Sheet is free from lead, cadmium, barium and other heavy metals.

PROPERTY	TEST	UNIT	VALUE
PHYSICAL			
Density	ASTM D 1505	g/cc	0.50-0.60
Hardness	ASTM D 2240	Shore 'D'	>40
Water Absorption	ASTM D570	%	< 1.0
MECHANICAL			
Tensile Strength	ASTM D 638	Psi	> 1595
Elongation	ASTM D 638	%	>10
E-Modulus	ASTM D 638	Psi	130000-220000
Flexural Strength	ASTM D 790	Psi	>4350
Izod Impact Strength	ASTM D 790	Psi	>9
Charpy Impact Strength	DIN 53253	KJ/M²	>10
Compressive Strength at 10% Deformation	ASTM D 695	Psi	>435
Screw hold (typical for 25mm sheet)	ASTM D 1761	lbs/inch	>265
THERMAL			
Vicat (B/50)	ASTM D 1525	°F	>160
Coefficient of Linear Thermal Expansion	ASTM D 696	⁰ C ⁻¹	5.56X10 ⁻⁵
Thermal Conductivity	ASTM C 177	W/m K	0.1
Heat Deflection Temp @ 1.8 MPa	ASTM D 648	⁰ F	~ 140
Rate of Heat Transfer	DIN 52616	W/m² k	3.0 for 10mm 2.0 for 19mm
Burning Rate	ASTM D 635	In/min	No burn when flame removed

ELECTRICAL

Surface Resistivity	ASTM D 257	Ω	>10 ¹⁴
Volume Resistivity	ASTM D 257	Ω-cm	>10 ¹⁵
Dielectric Constant	ASTM D 150	-	1.7

FLAMMABILITY

Country: UK	BS476; Part 7	-	Class 1
Country: USA	UL 94		94 V-0; 94 5-V
Country: France	NFP 92-501		M1

STANDARD DIMENSIONS AND COLOR

Color	Cap Layer White J 1054
Thickness	8, 10, 13, 19, 25, 30 mm
Width	1000, 1220, 1250, &1560 mm 1560 width is only available up to 19mm
Length	2000, 2440, 2500 & 3000, 4880 & 5490 mm
Flatness	8mm per meter for 8 & 10 mm. Above 10mm – 3mm per meter

^{*}Special color, lengths and widths as per customer request

TOLERANCE ON DIMENSIONS

Length	-0, +10 mm
Width	-0, +5 mm
Thickness	+/-(0.1 + 0.05 x S) Where S = thickness of the sheet

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