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EXCEL CLASSIC PVC FREE FOAM SHEET ASTM REFERENCE SHEET 10-30mm

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

PROPERTY	TEST	UNIT	VALUE
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PHYSICAL

Density	ASTM D 792	g/cc	0.55
Hardness	ASTM D 2240	Shore 'D'	≥50
Water Absorption	ASTM D570	%	≤ 1.0

MECHANICAL

Tensile Strength	ASTM D 638	Psi	> 2150
Elongation at Break	ASTM D 638	%	>13
E-Modulus	ASTM D 638	Psi	130000-220000
Flexural Strength	ASTM D 790	Psi	>4600
Izod Impact Strength	ASTM D 256	Ft lb/in	≥1.7
Charpy Impact Strength	ASTM D 256	Ft lb/in	≥1.7
Compressive Strength at 10% Deformation	ASTM D 695	%	>900
Screw Hold (typical for 25mm)	ASTM D 1761	Lbs/inch	>400

THERMAL

Vicat softening (B/50)	ASTM D 1525	°F	>160
Coefficient of Linear Thermal Expansion	ASTM D 696	°C ⁻¹	2.483 X 10 ⁻⁵
Thermal Conductivity	ASTM C 177	W/m K	0.05 – 0.07
Heat Deflection Temperature @ 1.8 MPa	ASTM D 648	°F	135
Burning Rate	ASTM D 635	In/min	No burn when flame removed

ELECTRICAL

Surface Resistivity	ASTM D 257	Ω	>1 x 10 ¹⁴
Volume Resistivity	ASTM D 257	Ω-cm	>1 x 10 ¹⁵
Dielectric Constant at 1 MHZ	ASTM D 150	-	1.56
Dielectric Strength	ASTM D 149	KV/cm	

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	White J 1018 & J 1022
Thickness	10 to 30 mm
Width	1000, 1220 & 1560 mm 2050 mm width on request
Length	2000, 2440 & 3050 mm

*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
Deviation Between Diagonals	mm \geq 6
Warpage on a full sheet	mm \geq 10

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