



**Jain Americas, Inc.**  
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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 |
|----------|------|------|-------|
|----------|------|------|-------|

**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 <sup>-1</sup> | 2.483 X 10 <sup>-5</sup>   |
| 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 <sup>14</sup> |
| Volume Resistivity           | ASTM D 257 | Ω-cm  | >1 x 10 <sup>15</sup> |
| 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<br>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)<br>Where S = thickness of the sheet |
| Deviation Between Diagonals | mm $\geq$ 6  |
| Warpage on a full sheet     | mm $\geq$ 10   |

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