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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 ⁻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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