

Material Properties for Excel Colour PVC foam sheet.

The values are a list of typical results by testing large numbers of specimens under specified conditions.

Additional processing can influence the properties so we recommend caution must be adhered to when applied to the finished products.

PHYSICAL CHARACTERISTICS

Characteristic	Excel foam PVC sheet values
Base Polymer	Polyvinyl chloride PVC
Form	Semi – Finished sheet product
Thickness	3mm – 30mm
Smell	Odourless
Water absorption	0.10%
Water Solubility	Insoluble
Tensile strength at yield	≥ 13 MPa
Modulus of Elasticity	0.85 – 0.90MPa
Flexural Strength	> 32MPa
Elongation at break	13 %
Impact Resistance (CHARPY)	15Kj/m ²
Impact Resistance (IZOD)	9MPa
Shore Hardness	30-40

THERMAL PROPERTIES

Property	Excel foam PVC sheet values
Vicat Softening temperature	73°C
Heat Deflection Temperature	
@1.8MPa	57°C
Coefficient of Linear expansion	4.47 X 10 ⁻⁵
Thermal Expansion	0.06W/mK
Service Temperature	-20°C to +60°C



ELECTRICAL PROPERTIES

Property	Excel foam PVC sheet values
Surface Resistivity (ohms)	$10^{14} \Omega$
Volume Resistivity	$10^{15} \Omega\text{cm}$
Dielectric Constant at 1MHZ	2.4
dielectric strength	$\geq 90\text{kV}$

SHEET SIZES & TOLERANCES

Standard sheet sizes	1mm – 10mm	12mm – 26mm	30mm
	2440 X 1220 mm	2440 X 1220 mm	2440 – 1220 mm
	3050 X 1220 mm	3050 X 1220 mm	3050 X 1220 mm
	3050 X 1560 mm	3050 X 1560 mm	
	3050 X 2050 mm		

Other sizes available to order. Subject to minimum quantities.

TOLERANCES

Length	-0 +10mm
Width	-0 +3mm
Thicknesses	+ /- 5%

