

## Material Properties for Excel Connect Extra White 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 – 10mm
Density	aver. 0.50 g/cm <sup>3</sup>
Smell	Odourless
Water absorption	0.10%
Water Solubility	Insoluble
Tensile strength at yield	12MPa
Modulus of Elasticity	0.85MPa
Flexural Strength	30MPa
Elongation at break	13%
Impact Resistance (CHARPY)	14kj/m <sup>2</sup>
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	58°C
Coefficient of Linear expansion	4.47 X 10 <sup>-5</sup>
Thermal Expansion	0.06W/mK
Service Temperature	-20°C to +60°C

### ELECTRICAL PROPERTIES

Property	Excel foam PVC sheet values
Surface Resistivity (ohms)	10 <sup>14</sup> Ω
Volume Resistivity	10 <sup>15</sup> Ωcm
Dielectric Constant at 1MHZ	
dielectric strength	1.56

