



## Excel Plastics

### 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	~ 12 MPa
Modulus of Elasticity	~ 850 MPa
Flexural Strength	> 30 MPa
Elongation at break	~ 13 %
Impact Resistance (CHARPY)	~ 14 kJ/m <sup>2</sup>
Impact Resistance (IZOD)	~ 9 MPa
Shore Hardness	~ 30-40 (Shore-D)

#### 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



## EXCEL FOAM SHEET AVAILABILITY

### SHEET SIZES & TOLERANCES

Dimension	Excel Connect PVC foam sheet sizes
Standard sheet sizes	2440mm x 1220mm
	3050mm x 1220mm
	3050mm x 1560mm
	3050mm x 2050mm
Other sizes are available to order Subject to minimum quantities.	

### TOLERANCES

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

Excel Plastics has no control over the use of the material by different end users. It does not guarantee the same results each time. The end user should make their own tests to determine the suitability of the product for the application. Excel Plastics cannot be held responsible for any incorrect handling of the product.