



Excel Plastics

Material Properties for *Excel GrafiX* 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	av. 0.45 g/cm ³
Smell	Odourless
Water absorption	0.10%
Water Solubility	Insoluble
Tensile strength at yield	18 MPa
Modulus of Elasticity	900 – 1500 MPa
Flexural Strength	32MPa
Elongation at break	13 %
Impact Resistance (IZOD)	8 kJ/ m ²
Shore Hardness	25-30

THERMAL PROPERTIES

Property	Excel foam PVC sheet values
Vicat Softening temperature	70.5°C
Heat Deflection Temperature	
@1.8MPa	55°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	
dielectric strength	1.56

EXCEL FOAM SHEET AVAILABILITY

SHEET SIZES

Standard sheet sizes	3 -10 mm thickness
	2440 mm x 1220 mm
	3050 mm x 1220 mm
	3050 mm x 1560 mm
	3050 mm x 2050 mm
Other sizes are available to order	
Subject to minimum quantities.	

TOLERANCES

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