# **PVC FOAM SEETH**

## Material Properties for Excel 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.

DUIMO	CAL	CHAR		
PHYS	ICAL	CHAR	ACTER	RISTICS

Characteristic	Exce	el foam PVC sheet va	lues
Base Polymer	Polyvinyl chloride PVC		
Form	Semi – Finished sheet product		
Thickness	mm	1-10	10-30
Physical			
Density	g/ cc	0.55 - 0.65	0.50 - 0.55
Hardness	Shore-D	≥ 35	> 40
Smell		Odourless	Odourless
Water absorption	%	0.10	0.10
Water Solubility		Insoluble	Insoluble
Mechanical			
Tensile strength at yield	MPa	>13	>15
Elongation at break	%	≥ 15	≥ 13
Modulus of Elasticity	MPa	900 - 1500	900 - 1500
Flexural Strength	MPa	≥ 32	≥ 32
Impact Resistance (CHARPY)	15kj/ m <sup>2</sup>	≥ 15	≥ 15
Impact Resistance (IZOD)	15kj/ m <sup>2</sup>	<u>≥</u> 9	<u>≥</u> 9
HERMAL			
Vicat Softening temperature	οС	> 72	> 72
Heat Deflection Temperature @ 1.8	°C	≥ 58	≥ 57
MPa			
	Mm/m <sup>o</sup> C	0.068	0.068
MPa	Mm/m <sup>o</sup> C W/mK	0.068	0.068 0.06
MPa Coefficient of linear expansion		-	
MPa Coefficient of linear expansion Thermal conductivity Service Temperature	W/mK	0.06	0.06
MPa Coefficient of linear expansion Thermal conductivity Service Temperature  LECTRICAL	W/mK °C	0.06 -20 to 60	0.06 -20 to 60
MPa Coefficient of linear expansion Thermal conductivity Service Temperature  ECTRICAL Surface Resistivity	W/mK °C	0.06 -20 to 60 10 <sup>14</sup>	0.06 -20 to 60 10 <sup>14</sup>
MPa Coefficient of linear expansion Thermal conductivity Service Temperature  LECTRICAL	W/mK °C	0.06 -20 to 60	0.06 -20 to 60

## **EXCEL FOAM SHEET AVAILABILITY**

### SHEET SIZES

Standard sheet sizes	1 -10 mm thickness	12–25 mm thickness	30 mm thickness
	2440 x 1220 mm	2440 x 1220 mm	2440 x 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 are available to order Subject to minimum quantities.

### **TOLERANCES**

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