

# uPVC Technical Information

## Compound



All Marco uPVC trunking products are extruded and manufactured from rigid self-extinguishing uPVC.

The compound used is classed as medium to heavy impact, whilst the design of the product ensures a high impact performance.

### Compound Properties

Property	Standard	Method	Unit	Value
Density	BS2782	620A	g/cm <sup>3</sup>	1.78
Vicat Softening Point	BS2782	120B	°C	78
VCM Content Heat Deflection Point	EEC Directive BS2782	81/432/CEE 121A	PPM °C	<146

Additional Properties of uPVC	Test	Unit	Typical Value
Rockwell Hardness R Scale	ASTM	deg	115
Tensile Modulus 1% Strain at 23 °C		MN/m <sup>2</sup>	2,300
Tensile Strength at Yield	BS2782	Mpa	43
Coefficient of Thermal Expansion		°C	0.06 X 10 <sup>3</sup>
Thermal Conductivity at 23 °C		W/mK	0.16
Volume Resistivity (ohm cm)	BS2782		50 X 10 <sup>13</sup>
Surface Resistance (ohms)	BS2782		10 X 10 <sup>13</sup>

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### Thermal Expansion

It is recommended not to run the installation at high temperatures for long periods of time. The table below shows the various temperatures for the different uPVC trunking stages:

Temperature Range °C	Min	Max
Storage	-5	+50
Installation	-5	+50
Operating	-5	+60

### Environmental

Marco uPVC products are produced to all applicable environmental standards.

No compounds used contain any substances classified as health hazards according to EEC Directive 1999/45/EC and the UK CHIP Statutory Instrument 2002 No 1689.

Water Absorption  
Negligible

### Maintenance

No chemicals or solvents are needed to clean any Marco products. To clean, simply apply a damp cloth.

### Chemical Resistance

All Marco uPVC products are excellent resisters of both Mineral Acids and Detergents.

They are also resistant to Alcohols, but are liable from other solvents such as ketones, aromatics and hydrocarbons.