

# PVC

Poly Vinyl Chloride (PVC) is the world's third most widely produced plastic after polypropylene and polyethylene.

Cheap, durable, rigid and easy to assemble, it is widely used in construction where cost and risk of corrosion limit the use of metal.

Its flexibility can be enhanced with the addition of plasticisers, making it suitable for a wide variety of applications, ranging from upholstery and clothing to garden hoses and cable insulation.

Key Properties		Units	Test Method
<b>General</b>			
Density	1.4 (0.05)	g/cm <sup>3</sup> (lb/in <sup>3</sup> )	ISO 1183
Density relative to water (=1)	1.4	-	ISO 1183
Water absorption (24 hrs)	0.10	%	ASTM D570
<b>Thermal</b>			
Continuous Service Temperature	60 (140)	°C (°F)	-
Vicat Softening Temperature	78 (172)*	°C (°F)	DIN 53460
Thermal Conductivity	0.14*	W/mK	ASTM C177
Linear Thermal Expansion	0.8*	x10-5 / °C	DIN 52612
Melting Point	≥100 (≥212)	°C (°F)	-
Flammability	V0	-	UL 94
<b>Mechanical</b>			
Impact Strength, Notched Izod (23°C)	20	kJ/m <sup>2</sup> (ft-lbs/in <sup>2</sup> )	DIN 53453
Modulus of Elasticity	>3200*	MPa	ISO 527
Tensile Strength at Break	54*	MPa	DIN 53455
Elongation at Break	>25*	%	DIN 53455
Shore Hardness	81*	D scale	DIN 53505
<b>Electrical</b>			
Dielectric Strength	20*	kV/mm	DIN 53481
Surface Resistance	10 <sup>14</sup> *	Ohm	DIN 53482
<i>*Applicable to rigid transparent sheets</i>			

## Notes

Except where indicated\*, figures shown are for panel thickness 3mm

DISCLAIMER: The purpose of this data sheet is to enable a consistent comparison with other products to help users to make an informed choice. The information provided in this product data sheet is for comparison and reference purposes only and is based on generic information gathered from a number of sources. In some cases the data provided is an average value only and represents our best attempt to describe the material's properties under typical factory conditions. We make no representations or warranties as to the completeness or accuracy of any of the data contained in this data sheet and users should use them as a general decision-making guide only. Branded data sheets are available on request. The information contained in this data sheet is subject to copyright. This data sheet cannot be reproduced for commercial purposes, apart from assisting users with making a purchasing decision, without the express permission of Plastic Wholesale.