

PVC Sheet

Polyvinyl Chloride



PVC sheets produced from Polyvinyl chloride and was one of the first fully synthetic materials, developed more than 600 years ago and is ideally suited for a wide range of industrial and general uses.

PVC is a weldable plastic ideally suited to industrial applications where chemical resistance and rigidity are a requirement.

The properties of PVC give the material high rigidity and strength compared to other plastics and allows it to be formable and machinable.

PVC sheets and rods products contain no plasticisers or fillers and conform with DIN 16927

Features & Benefits		Applications	
<ul style="list-style-type: none">• Excellent electrical insulating properties• Very high chemical resistance• Thermoformable• Very good moisture resistance• Bondable• Self-extinguishing		<ul style="list-style-type: none">• Chemical storage vessels• Tank Liners and fittings• Fume Cupboards• Pump Components• Electrical insulators	
PVC Sheets	2440 x 1220	Thicknesses (MM) 3, 4.5, 6, 10 12, 15, 20, 25	White, Grey and Clear



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	Unit	Test Method	Value	
Density	g/cm ³	DIN 53479/ISO 1183	1.45	
Yield Stress	N/mm ²	DIN 53455/ISO 527	55	
Elongation at break	%	Test speed: 50mm/min Test piece 3	20	
Impact strength	KJ/m ²	DIN 53453/ISO 179 Small standard test piece	No Break at 0°C	
Notched impact strength (Charpy)	KJ/m ²	DIN 53453/ISO 179 Small standard test piece	≥ 4 to 23°C	
Ball indentation hardness H 358/30	N/mm ²	DIN 53456/ISO 2039 Applied load 358 N	120	
Modulus of Elasticity	N/mm ²	DIN 53457 Tensile test	≥3100	
Flexural creep modules for PVC = 5 N/mm ²	N/mm ²	Stress duration 1 year	20 °C	1800
			40 °C	1400
			60 °C	600
			80 °C	
Creep Strength measured on pipes	N/mm ²	Stress Duration 10 years	20 °C	28
			40 °C	15
			60 °C	6.8
			80 °C	
Vicat Softening point	°C	DIN 53460, method B 50 ISO 306	≥80	
Heat Distortion temperature	°C	DIN 53461 ISO R 75	Method A	75
			Method B	82
Coefficient of linear expansion	k ⁻¹	Measured between 20 and 60°C	70. 10 ⁻⁶	
Volume resistivity	Ω cm	DIN 53482	>10 ¹⁵	
Surface resistance	Ω	DIN 53482	>10 ¹³	
Hot gas welding with round nozzle	°C	Temperature measurement in conformity with DVS 2208/2; Quantity of approx. 50 l/mm	340 ± 10	
With high speed nozzle	°C		340 ± 10	
Heated tool welding	°C	Temperature ± 10oC	210 to 230	
	N/cm ²	Preheating pressure	5	
	N/cm ²	Joining Pressure	60	
Thermoforming temperature	°C		120 to 150	
Hot-gas heating	°C		170 to 180	
Infrared radiation heating				
Bonding with solvent cements		DVS 2204 Page 1	Suitable	
Non – toxicity		BGA Recommendations	Does not Correspond	
Fire Behaviour		DIN 4102, part 1	B 1	
	Construction Materials Class Check Symbol	B 1 = Flame Resistant B 2 = Normally Flammable	PA-111 2.1591	
Weathering Resistants		Guiding Values	Good	
Working Temperature Range	°C	Guiding Values	-15 to 60	



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