

Venboard PVC (Polyvinyl Chloride) Technical Data Sheet



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Gantiel Vensott
Engineering Plastic Solutions

Product Description

Venboard PVC or Polyvinyl Chloride material is a thermoplastic polymer. It is manufactured without the use of heavy metal type additives such as lead or cadmium for environmental and consumer protection. It is mainly available in Rods and Sheets in medium grey color. It is a cost effective, versatile and robust sheet that provides comprehensive solutions for a wide range of applications.

Applications

General and Chemical Industries such as lab equipment, etching equipment, semiconductor processing equipment, plating barrels, chemical storing tank, acid or alkali production tower, fume fans, scrubbers, extraction systems, meter boxes, electrical insulators, industrial ducting, fume cupboards, Dust boxes, dozing platforms

Other Material Properties

It is thermoformable, electrically non-conductive and is resistant to grease, oil and a wide range of chemicals. PVC solid sheets can be easily machined, heat formed, welded and solvent cemented. It is ideal for apparatus construction and is weather stabilized making it highly adequate for outdoor use.

Key Features and Benefits

- Versatile, Robust and Durable
- Chemical and Corrosion Resistant
- Non Conductive (Electric)
- No Heavy Metals Present
- Moisture Resistant
- Weather Resistant
- High Strength to Weight Ratio
- Recyclable, Vacuum Formable

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Mechanical Properties

	Value	Unit	Parameter	Test Method
Mass Density	~1.42	g/cm ³		DIN EN ISO 1183-1
Yield Stress	50	MPa	50 mm/min	DIN EN ISO 527
Elongation at Yield	3	%	50 mm/min	DIN EN ISO 527
Modulus of Elasticity in Tension	3000	MPa	1 mm/min	DIN EN ISO 527
Notched Impact Strength	5	KJ/m ²	+23°C	ISO 179
Hardness Shore D	76		15 sec	ISO 868

Electrical Properties

	Value	Unit	Parameter	Test Method
Specific Volume Resistivity	>10 ¹⁵	Ω x cm		IEC 60093
Surface Resistivity	>10 ¹³	Ω		IEC 60093
Dielectric Strength	27	kV/mm		IEC 60243-1
Dielectric Constant	3.2			IEC 60250
Dielectric Dissipation Factor	0.04	tan δ	10 ⁶ Hz	IEC 60250

Thermal Properties

	Value	Unit	Parameter	Test Method
Vicat Heat Deflection Temperature	~72	°C	B50	ISO 306

Other Properties

	Value	Unit	Parameter	Test Method
Moisture Absorption	<1	%		EN ISO 62
Flammability	B2			DIN 4102
For use within temperature range	bis + 60°C	°C	to	

The data specified are only guidelines and may vary depending on the processing and treatment procedures. The usage of our materials for a specific purpose must be checked separately and confirmed. The examinations conducted by us do not relieve users from their duty to conduct their own tests.