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ABN 20 101 181 793

ACN 101 181 793

- Sheet Plastics
- Cut to size & shape
- CNC Router cutting
- Fabrication
- Vacuum Forming
- Boat Screens & windows
- Signs & Displays
- Engineering Plastics
- Ecoscreen Plastic Lattice
- C/S Acrovyn
- Bld/Lic RL155051

updated:1/8/05

PVC TECHNICAL DATA AND INFORMATION SHEET

Polyvinyl chloride is a flexible or rigid material that is chemically non reactive. PVC has a broad range of applications, from high volume construction related products to simple electric wire insulation and coatings. Rigid PVC is easily machined, heat formed, welded, and even solvent cemented. PVC can also be machined using standard metal working tools and finished to close tolerances and finishes without great difficulty. PVC accepts paint and performs well under most silk screening processes. PVC resins are normally mixed with other additives such as impact modifiers and stabilisers, providing hundreds of PVC based materials with a variety of engineering properties. PVC is available in rod, sheet, slab, pipe and tubes. "Plasticised" PVC is available in sheet and film.

Available PVC Products:

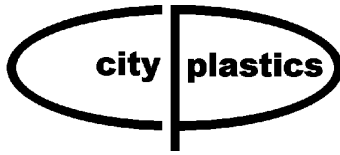
Flexible PVC Tubing, Vinyl Strip Door Curtains, Vinyl Welding Curtains, PVC Perforated Sheet, Clear Flexible Vinyl Rolls and Sheet, PVC Clear Rigid Sheet, Custom PVC Flexible Liners, PVC Fittings, PVC Cement

Properties:

High strength, Economical, Dimensional stability, Good weather resistance, High impact strength, Clarity, Colourability, Flexible or rigid, Chemically inert, Ease of fabrication, Tasteless, odourless, non-toxic, Good electrical properties

Applications:

Nuts, Filters, Signs, Tanks, Pipes, Bolts, Valves, Bushings, Tank and pool liners, Laboratory equipment, Ducts, Sprinkler systems, Photo mounting, Wall coverings, Pump parts, Fittings



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Typical properties of PVC

ASTM test	Property	Value
PHYSICAL		
D792	Specific gravity	1.30-1.58
D570	Water absorption, 24 hours, 3.0 mm thick (%)	0.2
°C	Maximum service temp	+60
°C	Minimum service temp	-15
D792	Specific volume (in. ³ /lb.)	20.5-19.1
MECHANICAL		
D638	Tensile strength at yield N/mm ²	57
D638	Elongation at yield (%)	3
D638	Tensile strength at break N/mm ²	30
D638	Elongation at break(%)	20
D785	Hardness, Shore	65-85D
	Impact strength mj/mm ²	no rupture
D256	Notched impact strength mj/mm ²	8
	Ball indentation hardness N/mm ²	120
D790	Flexural strength N/mm ²	90
D638	Modulus of elasticity N/mm ²	3000
THERMAL		
C177	Thermal conductivity at 20°C	0.14
D696	Coefficient of thermal expansion K-1.10-4	0.8
D648	Deflection temperature °C	72
D1525	Vicat softening temperature °C	75
ELECTRICAL		
D150	Dielectric constant At 1kHz	3
D150	Dissipation loss factor At 1kHz	0.01
D257	Volume resistivity (ohm-cm)	10.15
D257	Surface resistancy (ohm)	10.13
D495	Arc resistance	60-80
FABRICATION		
	Welding temperature °C	220
	Forming temperature °C	130

These values are representative of those obtained under standard ASTM conditions and should not be used to design parts which function under different conditions

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