PVC

SPECIFICATIONS SHEET

DETAILS

Chemical Name: Polyvinyl Chloride
Common/Trade Names: PVC, Takiron, Hishi, Polor, Sunloid
Abbreviation: PVC
Properties (Colour): Grey. White. Clear
Properties (Form): Rod, Sheet, Tube, Custom
Machining: Machines well and care has to be taken to limit the machining tool temperature and exposure to chloride gases.
Types: Rigid. Flexible.

KEY BENEFITS

- Can be heat formed or bent and welded
- Excellent electrical insulating properties
- Self-extinguishing
- Very high chemical resistance
- Thermoformable
- Moderate impact resistance and service temperature
- Good dimensional stability
- Very good moisture resistance
- Bondable

MECHANICAL PROPERTIES

Density r (g/cm3)	1.42
Tensile Strength at Yield s (Mpa)	50
Elongation at Break %	25
Modulus of Elasticity Tensile Et (Mpa)	3000
Modulus of Elasticity Bending Eb (Mpa)	-
Impact Strength kJ/mm2	4
Hardness Ball Indent	120
Creep 1 % after 1000hr MPa	-
Coefficient of friction against Steel m	-

PVC
(CONT.)

THERMAL PROPERTIES

Melting Point °C	170
Glass Transition Temperature °C	-
Thermal Conductivity W/M°C	0.16
Specific Heat J/(g.K)	0.83
Coefficient of Linear Expansion α 10-6 .°K	70-80
Safe Working Temp. Short Term °C	75
Safe Working Temp. Continuous °C	60
Minimum Working Temperature °C	-15

ELECRICAL PROPERTIES

Dielectric Constant Î106 Hz	3.2
Dielectric loss Factor tand 106 Hz	0.03
Volume Resistance W.cm	10^{15}
Surface Resistance W	10^{13}
Dielectric Strength kV/mm	39
Moisture Absorption % (at 50%RH)	-

Whilst all care has been taken to provide accurate & up to date information, we cannot provide legal certification of properties. We recommend that this information be used as a design guide only. Actual testing should be undertaken to confirm data if certification is required.

FOR FURTHER INFORMATION PLEASE CONTACT US. WE ARE HERE TO HELP.
NSW TEL. 02 9858 0177 | QLD TEL. 07 3883 4722 | INFO@MCNEALLPLASTICS.COM.AU