

Osman Plast uPVC pipes specifications

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Osman Plast Manufactures a wide range of UPVC pipes from 50 mm to 630mm in diameters adhering to international standards and norms namely the ES 848, ES 1717, DIN8062-8061, BS 3505, BS3506, T.C. 161A, ASTM D2241, ASTM D1785, DIN 19534 and DIN 19531 .

Manufacturing method:

UPVC compound: UPVC resin and additives such as stabilizers, lubricants, fillers, pigments; is extruded into UPVC pipes. The material is injection molded through automatic screw type injection molding machines. The molds have high locking pressures ranging in hundreds of tons, and where specified temperatures are accurately attained. Pipes are then cooled and tested.

TYPES OF Osma Plast UPVC PIPES:

- a. Non pressure pipes PVC Soil, Waste (aboveground), PVC Sewer and Drainage (underground) Pipe
- b. High Pressure Pipes: for the water supply, Irrigation & industrial water & gas pressure systems.
- c. PVC Telecom, Electrical Ducts and Conduits: all are manufactured with accordance to the international standards for electrical ducting

The Advantages of the plastic pipes:

- a. Cost: the plastic piping systems is proven to be cost cutting materials as its evaluated to the cost of the initial materials, installation, operation and repair or replacement over the system life.
- b. Simplicity of installation: being very simple to join and install it makes it very convenient to labor cost reduction.
- c. Plastic pipes are insensitive to aggressive media and soil.
- d. Plastic pipes are non-abrasive.
- e. Plastic pipes need no protective or insulation coating.
- f. Plastic pipes are non-corrosive.

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Technical Data of Osma Plast uPVC Pipes		
General Properties at 20deg Celsius		
Test	Unit	Value
Specific gravity		1.42-1.43
Shore Hardness	Deg.	70-90
Tensile Strength	Kg/cm ²	500
Bending Strength	Kg/cm ²	950
Modulus of elasticity	Kg/cm ²	3.2 x 10
Impact Strength Izod	Joules	4.7-5.4
Water absorption	Mg/cm ²	1.05
Elongation AT break	-	>80%
Softening point	°C	80
Fabrication Temperature	°C	110-140
Coefficient of linear expansion @70 °C	Mm/m °C	0.08
Specific Heat	Lcal/kg °C	0.025
Specific volume resistivity	Ohm/cm	>3-5x10 ¹⁵
Dielectric Strength	kV/mm	>40