



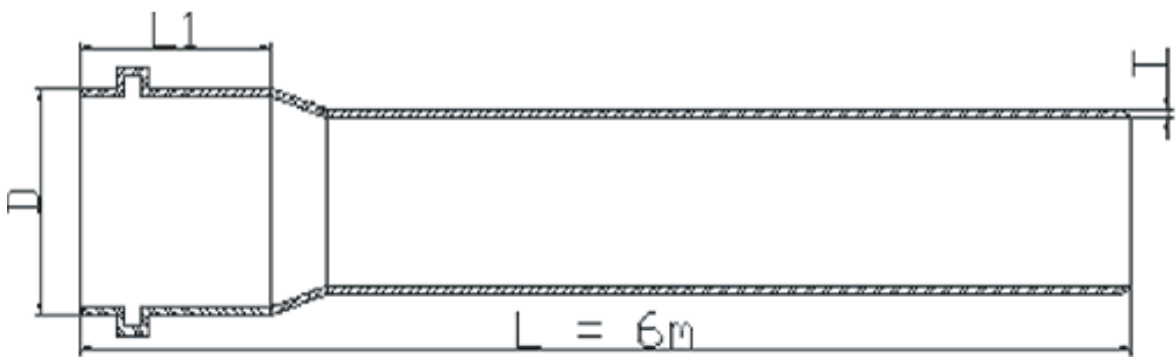
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## Plastic Piping System for Non-Pressure Underground Drainage And Sewerage

### 1-UPVC Pipes:

This range of Rigid Unplasticized Polyvinyl Chloride standard sewer pipes are designed for underground storm water, gravity sewerage and drainage networks, in compliance with the latest European Standard EN1401-1(2009).

They are suitable for plastic systems intended for the transportation of soil and waste discharge of domestic and industrial origin, and surface water under normal conditions.



i- **Physical Characteristics:**

<b>Characteristic</b>	<b>Requirement</b>	<b>Test Method</b>
Vicat Softening Temperature (VST)	$\geq 79^{\circ}\text{C}$	EN 727
Longitudinal Reversion	$\leq 5\% @ 150^{\circ}\text{C}$	EN ISO 2505: air
Resistance to Dichloromethane	No attack at any part	EN 580

**Table 1**

ii- **Mechanical Characteristics:**

<b>Characteristic</b>	<b>Requirement</b>	<b>Test Method</b>
Impact Resistance (Round the clock Method)	$\text{TIR} \leq 10\%$	EN 744
Internal Pressure	No failure during 1000Hrs testing period	EN ISO 1167-1

**Table 2**

Our pipes are manufactured in full compliance with EN 1401-1 and they surpass the requirements of the standard. UPVC pipes have full immunity to all types of corrosion as well as excellent fluid flow characteristics. They are light and easily installed and maintained.

iii- **Dimensions:**

<b>Outside Diameter (mm)</b>	<b>Thickness (mm)</b>	<b>Ring Stiffness SN (KN/m<sup>2</sup>)</b>
75**	2,5	2
75**	3,0	4
110	2,5	2
110	3,2	8
125	2,7	2
125	3,2	4
160	3,0	2
160	4,0	4
200	3,2	2
200	4,9	4
250	4,9	2
250	6,2	4

**Table 3**

**\*\* 75mm is according to EN 1329-1 having lip seal ring type socket.**

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Socket: Integral, the other end being chamfered for easy installation. Each Pipe is fitted with a push fit rubber ring.

## **2-UPVC Fittings:**

The application area of our fittings is both within the building structure as well as underground having lip seal ring type sockets.

The physical and mechanical properties are as follows:

<b>Characteristic</b>	<b>Value</b>
Vicat softening point	80°C±2
Specific Gravity	1.4±0.02
Shore-D-Hardness	79±2
Tensile Strength	59±5%(N/mm <sup>2</sup> )
Elongation at Break	120±5%

**Table 3**

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As for the various models and sizes, they are also provided in our full range product catalogue.