

POLYETHYLENE PIPES

Rigid PVC and high density polyethylene pipes have been used for water distribution systems mostly ranging from 15- 150mm dia and occasionally up to 350mm. Among the recent developments, is the use of High Density Polyethylene pipes. These pipes are not brittle like AC and other pipes; as such a hard fall at the time of loading and unloading etc. cannot do any harm to it. HDPE pipes as per IS 4984- 1987 can be joined with detachable joints and can be detached at the time of shifting the pipe line from one place to another.

Though for all practical purpose HDPE pipes are rigid and tough at the same time they are resilient and conform to the topography of land when laid over ground or in trenches. They are coilable, easily be bent in installation, eliminating the use of specials like bends, elbows etc., there by reducing fitting and installation costs. HDPE pipes are easy to carry and install.

They are lighter in weight and can be carried to heights as on hills. They can with stand movement of heavy traffic. This would not cause any damage to the pipes because of their flexural strength. HDPE has excellent free flowing properties. They have non adherent surface which reject (not attract) any foreign materials which would impede the flow. HDPE pipes are anticorrosive, have smooth inner surface so that there is less friction and pressure loss is comparatively less.