

ends of the deformed HDPE liner to provide a continuous monitor of the temperature and pressure being applied to the liner.

- v. Through the use of steam and air pressure the deformed pipe shall be reformed to conform to the existing pipe wall.
- vi. The reformed HDPE liner shall be cooled in accordance with the manufacturer's recommendations.
- vii. Temperatures and pressures shall be monitored and recorded throughout the installation process to ensure that each phase of the process is achieved at the manufacturer's recommended temperature and pressure limits.
- viii. For each length of liner two samples shall be taken at locations determined by the Engineer. The samples shall be clearly labelled with date taken and location. The samples shall be tested for average inside diameter, average outside diameter and minimum wall thickness in accordance with ASTM D2122, pipe stiffness at 5% deflection in accordance with ASTM D2412 and for the properties given in Table 3. The stiffness so measured shall meet, or exceed the stiffness requirements determined by calculation for that section of drainage pipeline or the minimum specified stiffness whichever is the greater. Any material may be rejected for failing to meet any of the requirements of this specification.
- ix. The water tightness of the liner shall be gauged throughout the forming process.

- D. The finished lining shall be continuous over the entire length of a run from manhole to manhole and be impervious and free of any leakage from the pipe to the surrounding ground and from the ground to inside the lined pipe.
- E. The beginning and end of the liner pipe shall be sealed to the rehabilitated pipeline and to the manhole liner using a material that is compatible with the liner.
- F. Immediately after installation the liner shall be tested to the relevant requirements of the specification.
- G. After the drainage pipeline is completely rehabilitated but before the drainage flow is returned the liner shall be inspected using CCTV in accordance with the requirements of Section 02830 of the specification and the Contractor shall provide the Engineer with a recording showing the completed work including the restored conditions.