

Abu Dhabi Municipality - Guidelines and Requirements for Planning and Design of
Non-Disruptive Road Crossings

2.1.4 Submittals

2.1.4.1 *Products and Materials Approval*

A. In order to verify compliance with the specification the Contractor shall submit information for all products and materials used in the Works to the Engineer for approval sufficiently in advance of their use in accordance with the Contract program allowing for ordering and approval times. Reference shall also be made to Section 01600 of the specification on products and materials approval. Information to be submitted shall comprise but not necessarily be limited to:

1. The manufacturers design calculations, complete and detailed specification and test results of the proposed pipes and fittings required for the Works including manufacturer's certificates of compliance in accordance with Section 02650 of the specification. Information shall be given for every diameter in each class of pipe. Materials Specifications shall provide the following details:

a) Pipe

- i. Identification of the polymer by generic name.
- ii. Melt flow index.
- iii. Class of designation of pipe, wall thickness, external diameters and max deviation.
- iv. Minimum required strength (MRS) at 50 years (ISO TR 9080, ISO/DIS 4427).
- v. Maximum hydrostatic design pressure.
- vi. Melt flow rate and maximum deviation (see ISO 4427)
- vii. Ovality.
- viii. Hydrostatic pressure tests results at 80oC for 1000 hrs (ISO 4427).
- ix. Longitudinal reversion (ISO 4427).
- x. Pipe shall be marked as required in ISO 4427 and EN 12201 and the following information to be included as a minimum:
 - Manufacturers ID