

Standard Guidelines for Product Review  
**High Density Polyethylene Pipe;**  
**Section 02410.60**  
November 15, 2006

**02410.60 – HDPE Pipe**

ODOT maintains a list of approved High Density Polyethylene pipe on the Qualified Products List (QPL). We keep two lists, one for water tight installations and one for non-water tight installations. Initially, each manufacturer submits documentation, independent test reports, and samples for each model of pipe including the joints they wish to have listed on the QPL. Upon acceptance and placement onto the QPL, the product then becomes available for use on upcoming projects for the category listed, but on-site support, certification, and warranties may be required for each project the pipe is proposed for use on.

**Specifications:**

1. Pipe must be Premium High Density Polyethylene HDPE.
2. Resin: Type III, Category 5, Class C, Grade P34 (ASTM D 3350).
3. Minimum long-term hydrostatic strength of 1600 psi (ASTM D 2837).
4. The Resin shall be listed by the Plastic Pipe Institute as a P.E. 3408 Resin.
5. Pipe sizing shall conform to ASTM F 714, DR and SDR shall be specified in the appropriate Specification Section, for example Sections 00412 and 00414 use SDR 17 as a minimum thickness.
6. Resin shall meet requirements of ASTM D3350 with a minimum cell classification of 345464C.
7. The polyethylene composition shall contain a minimum of 2% and not more than 3% by weight of well-dispersed and finely divided carbon black to suitably protect the pipe against degradation from exposure to ultraviolet light for a minimum of 24 months when tested in accordance with ASTM D 1603 or D 4218.
8. Sufficient antioxidant shall be added to meet the thermal stability requirements of ASTM D 3350 Section 10.1.9.
9. Pipe allowed in water tight applications shall meet the requirements of ASTM D3212.

**To apply** for inclusion on the QPL, submit the following:

- [Preliminary Information for Product Evaluation Form](#).
- Clearly specify the product name and submittal type: Water Tight or Non-Water Tight.
- Independent test results showing compliance to the specifications listed above.
- Current, legible copy of the MSDS.
- Spec data sheet.
- Recommended installation instructions.

**Submit documentation and submittal forms to:**

Oregon DOT - Product Evaluation Coordinator  
800 Airport Road SE  
Salem OR 97301-4798

<http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/QPL/QPIndex.shtml>