

June 2008



Features & Benefits

- *Durable, flexible, lightweight HDPE*
- *Meets UL 651, UL 1990 (CIC)*
- *NEMA T-C7*
- *Continuous length or sticks for fast installation*
- *Multiple colors - easy identification*

GENERAL INFORMATION

Perma-Guard™/UL is manufactured from high-density polyethylene (HDPE) resin conforming to the requirements of UL 651 for rigid, non-metallic continuous length HDPE conduit. Perma-Guard™/UL is ideal for use in protecting a wide variety of electrical and telecommunication cable constructions for installation in accordance with the National Electric Code. Approved for use when encased in a minimum of 2" of concrete or in underground applications either direct buried or encased in concrete.

Perma Guard/UL is available for 1/2" to 4" in three recognizable NEMA wall thicknesses:

1. EPEC B – SDR 13.5
2. EPEC 40 – SCH 40
3. EPEC 80 – SCH80

The product also meets UL 1990 in these wall thicknesses approved for use in CIC (cable in conduit).

Applicable Standards for Conduit

Standard	Title
UL 651	Continuous Length HDPE Conduit
NFPA 70	National Electric Code
ASTM D 570	Standard Test Method for Water Absorption of Plastics
ASTM D 638	Standard Test Method for Tensile Properties of Plastics
ASTM D 648	Standard Test Method for Deflection Temperature of Plastics Under Flexural Load
ASTM D 2412	Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading
NEMA TC 7	Smooth-Wall Coilable Polyethylene Electrical Plastic Conduit
ASTM D 3350	Standard Specification for Polyethylene Plastics Pipe and Fittings Materials

NOTE: A-D Technologies has made every attempt to assure that the information contained in this product bulletin is accurate. The information supplied may change without notice. This information is intended to inform the reader of the typical characteristics of the pipe and accessories that are described and should not be considered complete with regard to design considerations. Contact a representative regarding any questions about this document and to determine if the information contained within is current. ALL PROPRIETARY RIGHTS RESERVED