

Blue Diamond HDPE Specifications

Fiber Optic and Power Conduit

BDI114BK-WHS Conduit

Date 03092023

MATERIAL

1" SDR 13.5 SOLID WALL PE, COILABLE CONDUIT

OD**

1.315

ID**

1.100

WALL

0.097 MIN

**NOMINAL

SPECIFICATIONS

ASTM F2160: STANDARD SPECIFICATION FOR SOLID WALL HDPE CONDUIT BASED ON CONTROLLED OUTSIDE DIAMETER

ASTM D3350 (CELL CLASSIFICATION 334480C OR E): STANDARD SPECIFICATION FOR PE PLASTIC PIPE AND FITTINGS MATERIALS- RESINS EXCEEDING THE ABOVE CELL CLASS IN ONE OR MORE PROPERTIES IS ACCEPTABLE

Typical Properties

Property

Density (3)

Melt Index (3)

Flexural Modulus (4)

Tensile Strength (Yield) (4)

Environmental Stress

Crack Resistance (ESCR) (8)**

HDB @ 73.4oF (0)*

UV Stabilizer (C or E)

Ultimate Elongation

Test Procedures

ASTM D1505

ASTM D1238

ASTM D790

ASTM D638

ASTM D1693

ASTM D2837

ASTM D1603

ASTM D638

Units**

0.940 - 0.947 gm/cc

<0.40 to 0.15 gm/10 min

80,000 – 110,000 psi

3000 - 3500 psi

96 hrs

1 year exposure

>400%

** F10>96 hours per ASTM F2160

* Not pressure rated - Consult ASTM D3350 for specific values

*** Consult ASTM Standards for acceptable tolerances.