

Blue Diamond HDPE Specifications

Fiber Optic and Power Conduit

BDI164BK-WHS Conduit

Date 03092023

MATERIAL

1 1/2" SDR 13.5 SOLID WALL PE, COILABLE CONDUIT

OD**

1.900

ID**

1.599

WALL

0.141 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	Test Procedures	Units**
Density (3)	ASTM D1505	0.940 - 0.947 gm/cc
Melt Index (3)	ASTM D1238	<0.40 to 0.15 gm/10 min
Flexural Modulus (4)	ASTM D790	80,000 – 110,000 psi
Tensile Strength (Yield) (4)		
Environmental Stress	ASTM D638	3000 - 3500 psi
Crack Resistance (ESCR) (8)**	ASTM D1693	96 hrs
HDB @ 73.4oF (0)*	ASTM D2837	----
UV Stabilizer (C or E)	ASTM D1603	1 year exposure
Ultimate Elongation	ASTM D638	>400%

** F10>96 hours per ASTM F2160

* Not pressure rated - Consult ASTM D3350 for specific values

*** Consult ASTM Standards for acceptable tolerances.