

# Blue Diamond HDPE Specifications

## Fiber Optic and Power Conduit

BDI414BK-WHS Conduit

Date 03062023

### MATERIAL

4" SDR 13.5 SOLID WALL PE, COILABLE CONDUIT

### OD\*\*

4.500

### ID\*\*

3.793

### WALL

0.333 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.



4040 Finn Way, Suite 240

Lexington, KY, 40517

[859.224.0415](tel:859.224.0415)

859.224.0543 fax

[www.bdiky.com](http://www.bdiky.com)