

# Blue Diamond HDPE Specifications

## Fiber Optic and Power Conduit

BDI214BK-WHS Conduit

Date 03062023

### MATERIAL

2" SDR 13.5 SOLID WALL PE, COILABLE CONDUIT

### OD\*\*

2.375

### ID\*\*

2.002

### WALL

0.176 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.



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