

Blue Diamond HDPE Specifications

Fiber Optic Microduct

1-Way Oversheathed

M011OR-R1RC1-T20N Conduit

Date 11152024

MATERIAL

10/6 mm SOLID WALL PE, COILABLE CONDUIT

OVERSHEATH 1-WAY EXTRUDED OVER MICRODUCT AND TRACER WIRE PACKAGE

OD**	ID**	WALL
0.394	0.236	0.070 MIN
PACKAGE OD**		WALL
0.394		0.070 IN

**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

BELLCORE GR-356-CORE- (SECTION 4.2.5)- SILOXANE ADDITIVE IN COEXTRUDED INNER WALL FOR PERMANENT LOW COEFFICIENT OF FRICTION OF .10> PER BELLCORE SPEC

TESTING: SINGLE DUCTS ARE CONTINUOUSLY TESTED "IN PROCESS" WITH A METAL BALL AT 85% OF THE ID TO INSURE COMPLIANCE WITH THE SPECIFICATION

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.