

K-PLAST®

• SMOOTHWALL HDPE PIPE

Your Reliable Choice For Innerduct
Protection of Fibre Optical Cable



Introduction

K-Plast® Smoothwall HDPE Pipe is manufactured from high quality High Density Polyethylene (HDPE) offering flexibility, durability, lightweight and ease of installation for: the innerduct as means of protection to Telecommunications Fibre Optical Cable and other cables by means of blowing technique or pulling by rope.

K-Plast® Smoothwall HDPE Pipe consists of 2 concentric layers: the outer layer being HDPE co-extruded with an inner layer of solid silicone permanent lubricant to reduce the internal coefficient of friction. Alternatively, the HDPE pipe can be extruded without a separate inner layer.

K-Plast® Smoothwall HDPE Pipes are significantly marked with permanent ink at intervals of every meter enabling identification type such as the manufacture name, size, lot number, sequential markings at every meter, generic type of cable, etc.



Advantages

- Flexible and allows good conformity to most terrain
- Available in various lengths from 100m to 2000m in single coil as per customer's requirement
- Available in various colours as per customer's requirement for identification
- High mechanical resistance and excellent chemical resistance
- Multiple innerduct per drum reel
- Smooth inner surface ensures minimizes abrasive resistance with co-extruded inner layer of permanent silicone lubricant
- Available with sequential markings

Product Properties

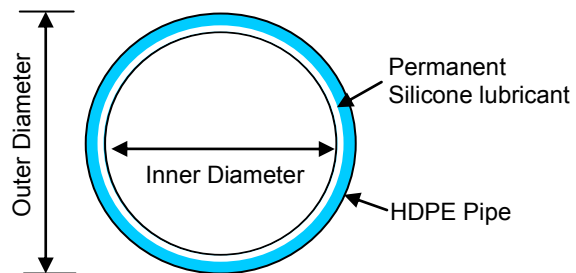
Property	Test Method	Nominal Value
Heat Reversion Test	ISO 2505-1&2	< 3%
Bending Test		Ovality < 10% No sign of crack
ESCR		No sign of crack for 168 hours
TSCR		No sign of crack for 168 hours
Crush Resistance	ASTM D2412	> 700kPa
Tensile Strength	Nominal Working Strength	> 400kgF
Dynamic Coefficient of Friction	Bellcore TR-NWT-000356, Issue 2, Section 4.1.4.	< 0.1

Material Properties

Property	Test Method	Minimum Value
Density	ASTM D1505	0.940g/ cm ³
Melt Flow Index	ASTM D1238	0.20g /10min
Tensile Strength at Yield	ASTM D638	19 MPa
Elongation at Break	ASTM D638	> 600%
ESCR	ASTM D1693	F ₅₀ > 1500hrs

Dimension

Outer Diameter	Inner Diameter	Wall Thickness
20mm	16mm	2.00mm
25mm	20mm	2.50mm
32mm	26mm	3.00mm
40mm	33mm	3.50mm
50mm	42mm	4.00mm



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