Specification: Micro duct Φ7/4mm

1 Main feature

- Φ6/4mm polyethylene tubes with smooth inner wall to reduce friction
- Low friction internal coating for maximum fiber blowing distance

2 CONSTRUCTION

Materials:	HDPE (High-density
Diameter (D/d):	Polyethylene) 7.0/4.0mm
Color options:	Fully colored
Inner surface:	Smooth with silicon

3 SPECIFICATION

Raw materials

HDPE of a high-molecular type with the following parameters is used for production of the microduct:

● Melt flow index	0.1 ~ 0.3 g/10 minutes (190 C , 2.16KG)	EN ISO 1133
● Density:	Min. 0.940 g/cm3	ISO 1183
● Tensile strength at yield:	Min. 21MPa	ISO 527
● Elongation at the break:	Min 350%	ISO 527
● Environmental stress crack resist (F_{50})	Min. 350 hours	ISO 4599

Dimension:

	Outer dia. (mm)	Wall thickness (mm)	Ovality (%, before coiled)
Microduct Φ7/4mm	7.0 ± 0.1	1.5 ± 0.1	≤5

Mechanical performance:

	UNIT	Properties
Weight	Kg/km	16
Max. pulling force	N	250
Elongation at break	%	≥380
Bending radius & flexibility	mm	72
Crush performance	N	500
Kink	mm	60
Heat reversion	%	≤3
Internal pressure	bar	16
Friction	-	0.1
Outdoor exposure limit	Month	12

STANDARD:

Crush performance	IEC 60794-1-2-E3
Tensile & elongation	IEC 60794-1-2-E1
Bend	IEC 60794-1-2-E11
Flexibility	IEC 60794-1-2-E8
Kink	IEC 60794-1-2-E10

Storage:

Completed packages of the HDPE microduct on drums can be stored outdoor max. 12 months upon the date of production.

Storage temperature:	-40°C	~	+70°C
Installation temperature:	-20°C	~	+50°C
Operating temperature:	-40°C	~	+70°C