Test	Characteristic	Test Method	Acceptance Criteria
Raw Materials			
1	Micro duct is manufactured with 100% virgin HDPE		
2	Melt flow index	ASTM 1238 190℃ @ 2.16KG Load	≤0.40 g/10min
3	Density	ASTM D792	0.940～0.958 g/cm^3
4	Environmental stress crack resist (F50)	ISO 4599	Min. 96h
Physical and Mechanical Properties			
1	Visual appearance	Visual inspection	Ribbed inside & smooth outside surface, free from blisters, shrink hole, flaking, scratches & roughness.
2	Outer diameter	Seako	12.0mm ± 0.1mm
3	Wallthickness	Seako	1.00mm ± 0.10mm
4	Inner diameter clearance	Blowing steel ball	A8.5mm steel ball can be blown freely through the duct.
5	Ovality	Seako	≤ 5%
6	Pressurization	5 minutes @ 16bar each duct	No damage and leakage
7	Kink	IEC 60794-1-2 Method E10	≤ 120mm
8	Tensile strength	Rate of extension: 100mm/min	≥620N
9	Crush	Sample length: 250mm Load: 380N Duration of Max. load: 1 min Recovery time: 1 hour	No residual deformation> 15% of inner and outer diameter, shall pass inner diameter clearance test.
10	Impact	IEC 60794-1-2 Method E4 1.0J Impact, recovery time 1 hour	No residual deformation> 15% of inner and outer diameter, shall pass inner diameter clearance test.
11	Heat reversion	110℃～ 23℃, 1 hour	≤ 3%
12	Min. bend radius	144mm	No residual deformation> 15% of inner and outer diameter, shall pass inner diameter clearance test.
13	Co-efficient of Friction	750mm Diameter, 450°loop, 5kg mass	≤ 0.1
14	Color and printing	Visual inspection	As per customer specification

Completed packages of the HDPE micro duct on drum can be stored outdoor max. 6 months upon the date of production.

Storage temperature: -40°C ～ +70°C

Installation temperature: -30°C ～ +50°C

Operating temperature: -40°C ～ +70°C