

Test	Characteristic	Test Method	Acceptance Criteria
<b>Raw Materials</b>			
1	Micro duct is manufactured with 100% virgin HDPE		
2	Melt flow index	ASTM 1238 190°C @ 2.16KG Load	≤0.40 g/10min
3	Density	ASTM D792	0.940~0.958 g/cm <sup>3</sup>
4	Environmental stress crack resist (F50)	ISO 4599	Min. 96h
<b>Physical and Mechanical Properties</b>			
1	Visual appearance	Visual inspection	Ribbed inside & smooth outside surface, free from blisters, shrink hole, flaking, scratches & roughness.
2	Outer diameter	Seako	20.0mm ± 0.15mm
3	Wallthickness	Seako	2.00 ± 0.10mm
4	Inner diameter clearance	Blowing steel ball	A 10.0mm steel ball can be blown freely through the duct.
5	Ovality	Seako	≤ 5%
6	Pressurization	5 minutes @25 bar each duct	No damage and leakage
7	Kink	IEC 60794-1-2 Method E10	≤220mm
8	Tensile strength	Rate of extension: 100mm/min	≥2100N
9	Crush	Sample length: 250mm Load: 900N 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 1.5J Impact, recovery time 1 hour	No residual deformation> 15% of inner and outer diameter, shall pass inner diameter clearance test.
11	Heat reversion	110°C ~ 23°C, 1 hour	≤ 3%
12	Min. bend radius	320mm	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