SHANGHAI SEAKO COMMUNICATION CO., LTD.

 HDPE TUBE BUNDLE
 SKSPEC-TB1410-7

 Ver A
 June 10, 2017

Test	Characteristic			Test Method		Acceptance Criteria					
Raw Materials											
1	Bundles is manufactured with 100% virgin HDPE										
	\mathbf{OO}	2	Melt	t flow index ASTM 123 190°C @		16KG Load	≤ 0.40 g/10min				
		3	Dens	sity	ASTM D792		$0.940{\sim}0.958~{ m g/cm^3}$				
		4	Environmental stress crack resist (F50)			Min. 96h					
Physical and Mechanical Properties – Inner Micro duct 14/10mm											
1	Visual appearance	9		Visual inspection		Ribbed inside & smooth outside surface, free from blisters, shrink hole, flaking, scratches & roughness.					
2	Outer diameter			Seako		14.0mm ± 0.1mm					
3	Wall thickness			Seako		2.00mm ± 0.10mm					
4	Inner diameter clearance			Blowing steel ball		A 8.5mm steel ball can be blown freely through the duct.					
5	Ovality			Seako		≤ 5%					
6	Pressurization			5 minutes @25bar each duct		No damage and leakage					
7	Kink			IEC 60794-1-2 Method E10		≤ 140mm					
8	Tensile strength			Rate of extension: 100mm/min		≥ 1350N					
9	Crush			Sample length: 250mm Load: 1400N 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° $ m C~\sim~$ 23° $ m C$, 1 hour		≤ 3%					
12	Min. bend radius			168mm		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					

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Test	Characteristic	Test Method	Acceptance Criteria					
Physical and Mechanical Properties – tube bundles								
1	Visual appearance	Visual inspection, Outer sheath: Black	Ribbed inside & smooth outside surface, free from blisters, shrink hole, flaking, scratches & roughness.					
2	Outer diameter	Seako	44.4mm*40.6mm (± 1.1mm)					
3	Sheath Wall thickness	Seako	1.20mm ± 0.20mm					
4	Pressurization	5 minutes @25bar each duct	No damage and leakage					
5	Tensile strength	Rate of extension: 100mm/min	≥ 6600N					
6	Crush	Sample length: 250mm Load: 2000N 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.					
7	Impact	IEC 60794-1-2 Method E4 5.0J Impact, recovery time 1 hour	No residual deformation > 15% of inner and outer diameter, shall pass inner diameter clearance test.					
8	Min. bend radius	820mm	No residual deformation > 15% of inner and outer diameter, shall pass inner diameter clearance test.					
9	Color and printing	Visual inspection	Orange or 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	\sim	+70°C
Installation temperature:	-30°C	\sim	+50°C
Operating temperature:	-40°C	\sim	+70°C