SHANGHAI SEAKO COMMUNICATION CO., LTD.

HDPE TUBE BUNDLE FLAT 8-WAYS 14/10mm

SKSPEC-TB1410-8FLAT Ver A June 10, 2017

Test	Characteristic		Test Method		Acceptance Criteria				
Raw Materials									
1	1 Bundles is manufactured with 100% virgin HDPE								
	2 Melto 3 Den:		t flow index ASTM 1238 190°C @ 2		3 2.16KG Load	≤ 0.40 g/10min			
X			sity	ASTM D792		$0.940{\sim}0.958\mathrm{g/cm^3}$			
4			ronmental stress crack t (F50)	ISO 4599		Min. 96h			
Physical and Mechanical Properties – Inner Micro duct 14/10mm									
1	Visual appearance		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°C ∼ 23°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	58.4mm*30.4mm (± 1.1mm)					
3	Sheath Wall thickness	Seako	1.20mm ± 0.00mm					
4	Pressurization	5 minutes @ 25 bar each duct	No damage and leakage					
5	Tensile strength	Rate of extension: 100mm/min	≥ 8200N					
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 15.0J Impact, recovery time 1 hour	No residual deformation > 15% of inner and outer diameter, shall pass inner diameter clearance test.					
8	Min. bend radius	620mm	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 $+70^{\circ}\text{C}$ Installation temperature: -30°C \sim $+50^{\circ}\text{C}$ Operating temperature: -40°C \sim $+70^{\circ}\text{C}$

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