Seako Specification HDPE TUBE BUNDLE 3-WAYS 14/10mm

SPEC-TB1410-3 Ver A June 10, 2017

Test	Characteristic			Test Method		Acceptance Criteria				
Raw Materials										
1	1 Bundles is manufactured with 100% virgin HDPE									
		2	Melt	flow index ASTM 1238 190°C @ 2		<0 40 g/10min				
		3	Dens	ity	ASTM D792	2	$0.940{\sim}0.958\mathrm{g/cm^3}$			
		4		onmental stress crack t (F50)	ISO 4599		Min. 96h			
Physi	cal and Mechanica	l Pro	pertie	s – Inner Micro duct 14/	10mm					
1	Visual appearance	2		Visual inspection		Ribbed inside & smooth outside surface, free from blisters, shrink hole, flaking, scratches & roughness.				
2	Outer diameter			Seako		14.0mm ± 0.1mm				
3	Wallthickness			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 \sim 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	30.4mm*28.6mm(± 1.1mm)					
3	Sheath Wallthickness	Seako	1.20mm ± 0.20mm					
4	Pressurization	5 minutes @25bar each duct	No damage and leakage					
5	Tensile strength Rate of extension: 100mm/min		≥3000N					
6	Crush Crush		No residual deformation> 15% of inner and outer diameter, shall pass inner diameter clearance test.					
7	Impact	IEC 60794-1-2 Method E4 10.0J 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	Black 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