



High Density Polyethylene pipe & Fittings

COD22700

QUALITY AND TEST CERTIFICATE

DATE : Nov 01, 2017

ISSUED NO. : OPTIROAD1101

DUCT	O.D.(mm)	I.D.(mm)	PITCH(mm)	COLOR
OUTER DUCT	110+4.0	90±2.0	25.4±1.0	ORANGE
INNER DUCT	22±1.0	27±1.0	N/A	ORANGE

**** The samples for inspection test to select out of this shipping quantity. ****

이 성 복

S. B. LEE / MANAGER
QUALITY ASSURANCE DEPT.
OPTIROAD INC.



Inspection Report for COD

No.	Test Item	Requirements		Coil & Sample No.					Reference
				CB0807	CB0807	CB0807	CB0807		
				01/15	05/15	10/15	15/15		
1	Pipe Dimension	Outer Duct	O.D. (110±4mm)	111.35	111.88	112.14	112.62		Ruler test
			I.D. (90±2mm)	90.42	90.84	90.12	90.82		Ruler test
			Pitch(25.4±1mm)	24.9	25.0	25.0	24.9		Ruler test
		Inner Duct	O.D.(27±1mm)	27.55	27.42	27.22	27.36		Ruler test
			I.D.(22±1mm)	22.82	22.74	22.66	22.90		Ruler test
2	Compression strength	Not to produce fissure of crack Outside		PASS	PASS	PASS	PASS		KS C 8455
3	Tensile strength	Min. 200kgf/cm ²		225.5	218.2	232.5	215.0		KS M 3006
4	Dielectrical withstand voltage	No dielectric breakdown shall appear for 2000V, 15min		PASS	PASS	PASS	PASS		KS C 8454
5	Insulation resistance	Less than 100MΩ		PASS	PASS	PASS	PASS		KS C 8454
6	Friction test	Less than 0.15		0.14	0.14	0.13	0.13		Bellcore way
7	Resistance to collapse	The gauge shall pass through the specimen easily		PASS	PASS	PASS	PASS		KS C 8454
8	Resistance to thermal	The gauge shall pass through the specimen easily		PASS	PASS	PASS	PASS		KS C 8454
9	Immersion test	10% SODIUM CHLORIDE : ±0.5/M ² 30% SULFURIC ACID : ±0.5/M ² 40% NITRIC ACID : ±1.0/M ² 40% SODIUM HYDROXIDE : ±0.5/M ² 95% ETHYL ALCOHOL : ±0.4/M ²		PASS	PASS	PASS	PASS		
** Remarks									Final Test Result
									PASS

Inspector by Lee, Seong Bock / Manager

Signature _____