

TEST REPORT

1. No : CT15-052386
2. Client :
 - Name : PT.TOILON INDONESIA
 - Address : JL.RAYA SERANG KM 16.8 DESA TELAGA, CIKUPA TANGERANG, INDOENSIA
 - Date of Receipt : 2015.05.06
 - TESTING PERIOD : 2015.05.06 ~ 2015.06.09
3. Use of Report : Quality control
4. Test Sample : CROSS LINKED PE FOAM (TOILON XPE)
5. Method :
 - (1) ASTM D5116 - 10

6. Test Results

1) CROSS LINKED PE FOAM (TOILON XPE)

Test Item(s)	Unit	Test method	Test Results	Testing Environment
Total Volatile Organic Compounds (TVOC)	mg/(m ³ · h)	(1)	0.036	-
Toluene	mg/(m ³ · h)	(1)	0.011	-
Formaldehyde	mg/(m ³ · h)	(1)	0.001	-

Affirmation	Tested By	<i>KimHyunJin</i>	Technical Manager	<i>Kim Sang Cheol</i>
	Name : Kim Hyun Jin		Name : Kim Sang Cheol	

Our report apply only to the standards or procedures identified and to the sample(s) tested unless otherwise specified. The test results are not indicative of representative of the qualities of the qualities of the lot from which the sample was taken or of apparently identical or similar products.

2015.06.09

Korea Conformity Laboratories

President

Song Jae Bin

Jae Bin Song

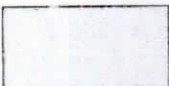


PT. Thermo Tech Solutions
KARTAS



Address : #805, I' VALLEY Gunpo, 149, Gongdan-ro, Gunpo-si, Gyeonggi-do, 435-010, Korea 82-31-389-9100

Result Inquiry : Healthy building division 82-31-389-9107



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Attach

* Condition of testing

1. Condition of emission test chamber

sample type	solid product	sample	foam
temperature	24.7 °C ~ 25.3 °C	loading factor	2.0 m ² /m ³
humidity	47 % ~ 53 %	air exchange rate	0.50 h ⁻¹

* Period in Chamber : 7 days

2. Analysis condition of TVOC & VOCs

ATD	Temperature (°C)	Tube	Trap	Valve	Transfer line
	Timing (min)	295	-30 ~ 300, 40 °C/s	200	200
	Split ratio	Sample	Trap hold	Desorb	Purge
		7	15	8	2
		10 : 1			
	Detector	MS			
	Column	DB-1, Column ID : 0.32 mm, Length : 60 m			
	Carrier gas and flow	He, 2.5 mL/min			
Temperature program	Initial temperature	40 °C (5 min)			
	Temperature program	6 °C/min			
	Final temperature	280 °C (10 min)			
MS condition	Mode	EI (Electron ionization)			
	Electron energy	70 eV			
	Detection mode	TIC (Scan), m/z : 35 ~ 350			

3. Analysis condition of Aldehyde

Detector	UV/Vis 360 nm
Column	C18, Column ID : 2.1 mm, Length : 100 mm
Mobile phase	Acetonitrile/Water (50/50 v/v → 100/0 v/v (10 min))
Analysis time	15 min
Injection volume	5 µL
Column temperature	40 °C
Flow rate	0.5 mL/min



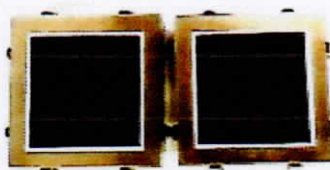
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< Picture #1 >



< Picture #2 >



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