


# TEST REPORT

 <b>CTK Co., Ltd.</b> <small>The Prime Leader of Global Regulatory Certification</small>	<b>CTK Co., Ltd.</b> 52-17, Sinjeong-ro 41beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, 17093, Korea Tel: +82-31-284-3155 Fax: +82-31-624-9501	REPORT No.: CTK-2024-RS02-0140 Page (1) / (5) pages	

## 1. Applicant

- Name : Dongnam Petroleum Ind.Co.,Ltd
- Address : 31, Wonsi-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea
- Date of Receipt : 2024-02-27

## 2. Manufacturer

- Name : -
- Address : -

## 3. Use of Report : for quality control

## 4. Test sample / Model : DONA-170E

## 5. Date(s) of test : 2024-02-28 to 2024-03-05

## 6. Test Standard (Method) used : Refer to 2 pages to 3 pages

## 7. Testing Environment : Temperature: (20 ± 1) °C, Humidity: (33 ± 1) % R.H.

## 8. Test Results : Refer to 2 pages to 3 pages

## 9. Location of Test : Permanent Testing Lab On Site Testing (Address : 52-17, Sinjeong-ro 41beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, 17093, Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.  
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Affirmation	Tested by Chang Sik Yoon : (Signature)	Technical Manager Hyo Seuk Jang : (Signature)
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Remark. This report is not related to KOLAS accreditation and relevant regulation.

2024-03-05


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## Test Results

Heavy Metals					
Test Item	Unit	Test Results	MDL	Test Methods	
Pb	mg/kg	N.D	5.0	IEC 62321-5:2013 _ICP-OES	
Cd		N.D	0.5	IEC 62321-5:2013 _ICP-OES	
Hg		N.D	1.0	IEC 62321-4:2013 _ICP-OES	
Cr <sup>6+</sup>		N.D	8.0	IEC 62321-7-2:2017 _UV/Vis	
Flame Retardants					
Test Item		Unit	Test Results	MDL	Test Method
PBBs	Bromobiphenyl	mg/kg	N.D	5.0	IEC 62321-6:2015 _GC/MS
	Dibromobiphenyl		N.D	5.0	
	Tribromobiphenyl		N.D	5.0	
	Tetrabromobiphenyl		N.D	5.0	
	Pentabromobiphenyl		N.D	5.0	
	Hexabromobiphenyl		N.D	5.0	
	Heptabromobiphenyl		N.D	5.0	
	Octabromobiphenyl		N.D	5.0	
	Nonabromobiphenyl		N.D	5.0	
	Decabromobiphenyl		N.D	5.0	
PBDEs	Bromodiphenyl ether	mg/kg	N.D	5.0	IEC 62321-6:2015 _GC/MS
	Dibromodiphenyl ether		N.D	5.0	
	Tribromodiphenyl ether		N.D	5.0	
	Tetrabromodiphenyl ether		N.D	5.0	
	Pentabromodiphenyl ether		N.D	5.0	
	Hexabromodiphenyl ether		N.D	5.0	
	Heptabromodiphenyl ether		N.D	5.0	
	Octabromodiphenyl ether		N.D	5.0	
	Nonabromodiphenyl ether		N.D	5.0	
	Decabromodiphenyl ether		N.D	5.0	

\* MDL : Method Detection limit, N.D : Not Detected



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Phthalate Ester				
Test Items	Unit	Test Results	MDL	Test Method
DBP (Dibutyl phthalate)	mg/kg	N.D	50.0	IEC 62321-8 : 2017 _GC/MS
BBP (Benzyl butyl phthalate)		N.D	50.0	
DEHP(Bis (2-ethylhexyl) Phthalate)		N.D	50.0	
DIBP (Di-isobutyl phthalate)		N.D	50.0	
Halogen Contents				
Test Items	Unit	Test Results	MDL	Test Method
Fluorine (F)	mg/kg	N.D	30.0	EN 14582 : 2016_IC
Chlorine (Cl)		N.D	30.0	
Bromine (Br)		N.D	30.0	
Iodine (I)		N.D	30.0	

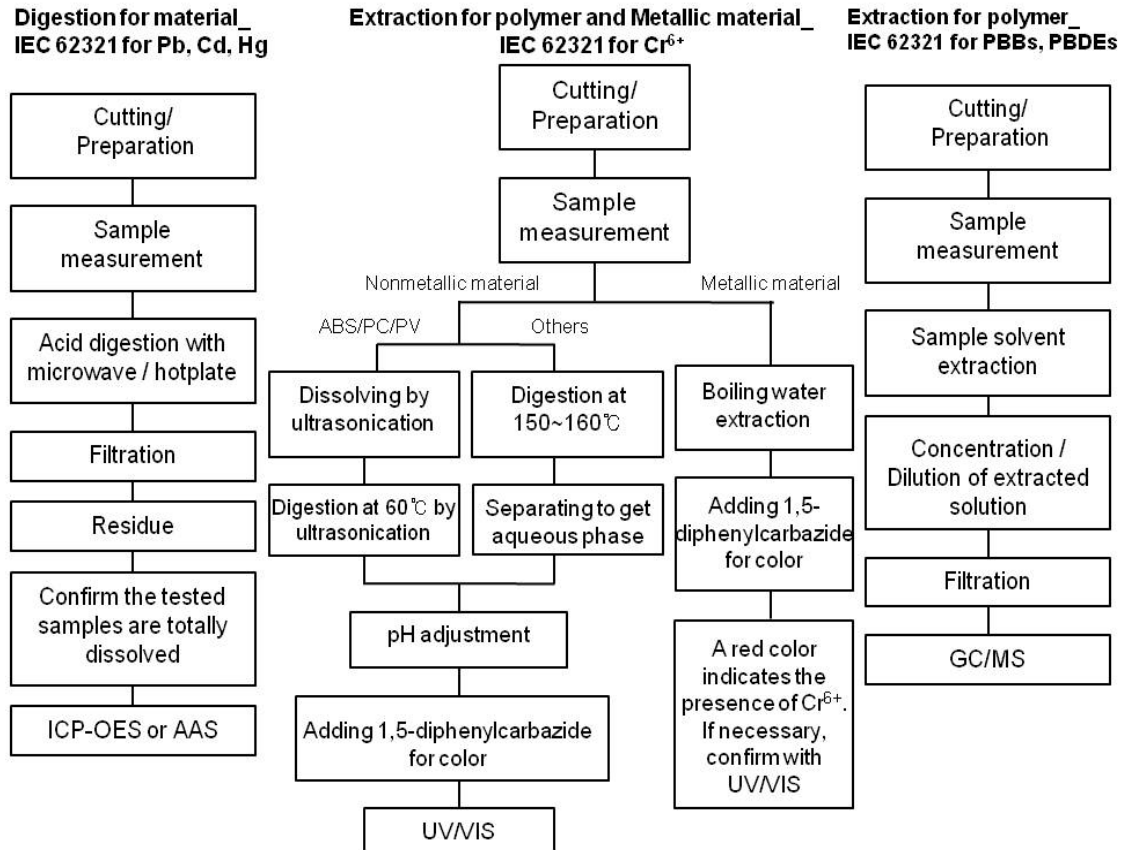
\* MDL : Method Detection limit, N.D : Not Detected




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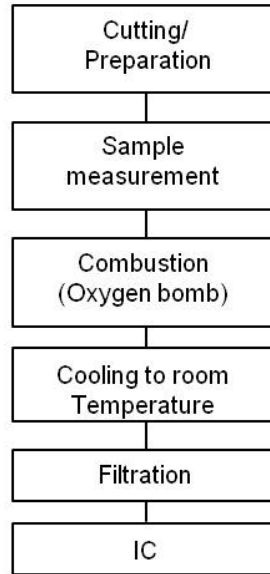
## FLOW CHART



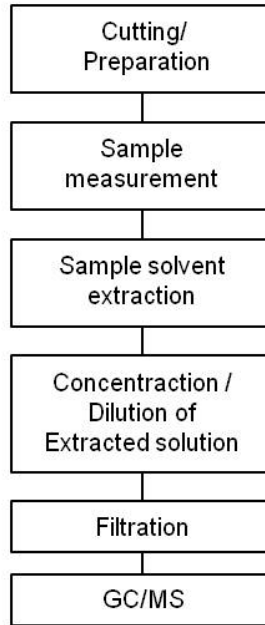
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 <p><b>CTK Co., Ltd.</b> The Prime Leader of Global Respiratory Certification</p>	<p><b>CTK Co., Ltd.</b> 52-17, Sinjeong-ro 41beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, 17093, Korea Tel: +82-31-284-3155 Fax: +82-31-624-9501</p>	<p>REPORT No.: CTK-2024-RS02-0140 Page (5) / (5) pages</p>	
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## Oxygen bomb for halogen\_EN 14582



## Extraction for polymer\_ IEC 62321 for Phthalate



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