

Report No.: 1203052181-01

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Client: **WONDERFUL PLASTIC LIMITED PARTNERSHIP**
259 Moo.12 T. Klongdan, A. Bangbor, Samuthprakarn 10550

Identification/ LDPE

Model No(s):

Sample Receiving date: 2017-09-21

Testing Period: 2017-09-21 – 2017-09-27

Delivery condition: *Apparent good, Samples tested as received*

Test Specification:

Test result:

1. Phthalates content (DBP, BBP, DEHP, DIBP) : Organic solvent extraction, determine by GC-MS

Refer to following page.

For and on behalf of
TÜV Rheinland Thailand Ltd.

2017-09-27

Wilawan Sriprom / Manager

Date

Name/Position

Test result is drawn according to the kind and extent of tests performed.

This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

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Material list:

Material No.	Material	Color	Location
M001	Plastic	Green with black printed	Refer to photo

4. Phthalates content (BBP, DBP, DEHP, DIBP)

Test Method: Phthalates content (BBP, DBP, DEHP, DIBP - Ref. to IEC 62321 Ed.1, 2017, determine by GC-MS)

Test Result:

Test No.	Material No.	(mg/kg)			
		BBP	DBP	DEHP	DIBP
		RL (mg/kg)			
		60	60	60	60
T001	M001	n.d.	n.d.	n.d.	n.d.

Abbreviation:
 BBP= Benzylbutyl phthalate
 DBP= Dibutyl phthalate
 DEHP= Bis(2-ethylhexyl) phthalate
 DIBP= Diisobutyl phthalate
 n.d.= Not Detected (< Reporting Limit)
 RL = Reporting Limit
 mg/kg= Milligram per kilogram

Remark:

Maximum permissible limit for RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU and its amendment Directive (EU) 2015/863 of 31 March 2015;

Elements	Maximum Permissible Limit
Benzylbutyl phthalate (BBP)	1000 mg/kg
Dibutyl phthalate (DBP)	1000 mg/kg
Bis(2-ethylhexyl) phthalate (DEHP)	1000 mg/kg
Diisobutyl phthalate (DIBP)	1000 mg/kg

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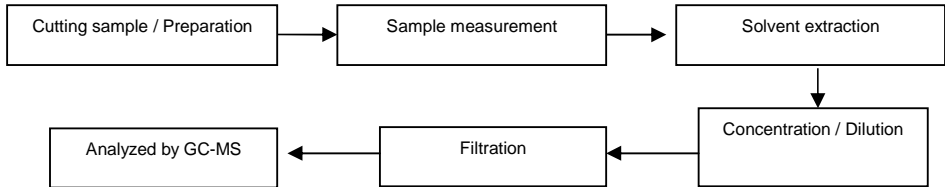
Sample Photo:



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Flow chart of Phthalate (DBP, BBP, DEHP, DIBP) Content

- 1) Name of the person who made measurement: Atikamas Polampai
- 2) Name of the person in charge of measurement: Atikamas Polampai



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