

TEST REPORT

Report No. : MAN:HL:7480009424

DATE : 17th November, 2016



J.K. ENTERPRISES
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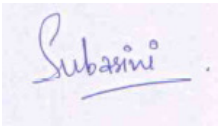
THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :

SAMPLE DESCRIPTION	PLASTIC BASE DUAL RELEASE 'GRAPAGE' GRAPE GUARD SHEET
STYLE NO.	23.5X32 CM-5GM, 23.5X45.7 CM GM, 35X40 CM-8.5GM, 35X47 CM-6.5GM, 35X47 CM-10GM
SEASON	2016-17
BUYER	R.L
COUNTRY OF ORIGIN	INDIA
SAMPLE RECD ON	18/10/2016
TEST PERFORMING DATE	04/11/2016 TO 17/11/2016

RESULT SUMMARY

TESTS NAME	COMMENTS
1. Dimethyl Fumarate Content (In house method : Liquid extraction . Analysis was conducted by GC / MSD)	See Result
2. Testing as per Commission Regulation (EU) No 10/2011 of 14 January 2011 and hence Article 3 of European RegulationNo. 1935/2004. (As per client's request)	---
Overall Migration	Pass
3. EN 71 Part 3 :2013 + A1 2014 –Migration of certain Elements (as per client's request)	Pass
4. Mould Count Test	See Result

Per Pro SGS India Pvt Ltd.



Subasini Saraswat
Asst. Manager
 Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

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TEST RESULTS:

1. DETERMINE THE DIMETHYL FUMARATE CONTENT :

Test Requested : To determine the Dimethyl Fumarate Contents in the submitted samples.

Test Method : In house method : Liquid extraction . Analysis was conducted by GC / MSD .

Test Result	: <u>Test</u>	<u>Result</u>	<u>Method Detection Limit(MDL)</u>
	Dimethyl Fumarate (mg/kg)	ND	0.1 mg/kg

Sample Discription : PLASTIC BASE DUAL RELEASE 'GRAPAGE' GRAPE GUARD SHEET

Note:

- 1) ND = Not Detected
- 2) mg/kg = milligrams/kilogram
- 3) Testing has been performed as per client's request.
- 4) Testing has been subcontracted to SGS approved lab.

2. Testing as per Commission Regulation (EU) No 10/2011 :

Overall Migration :

Method : With reference to EN 1186

Simulant Used	Test Condition	Result(mg/dm ²)	Permissible Limit(mg/dm ²)
		<u>1</u>	
3% Acetic Acid (W/V) Aqueous Solution	10 days @ 40°C	< 2	10
10% Ethanol	10 days @ 40°C	< 2	10
Comment	--	PASS	--

Sample Description : PLASTIC BASE DUAL RELEASE 'GRAPAGE' GRAPE GUARD SHEET

- Note:
1. mg/dm² = milligram per square decimeter
 2. °C = degree Celsius, < = less than
 3. Test condition & simulant were specified by client
 4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011.
 5. Testing has been performed as per the Client's request

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3. EN71-3: 2013+ A1 2014 – Migration of certain elements

Category III :

Method : With reference to EN71-3:2013 + A1 2014. Analysis of general elements was performed by ICP-OES.

Test Item		Results (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
		1		
Mass of trace amount	(mg)	--	--	--
Soluble Aluminium	(Al)	ND	50	70,000
Soluble Antimony	(Sb)	ND	10	560
Soluble Arsenic	(As)	ND	10	47
Soluble Barium	(Ba)	ND	50	18,750
Soluble Boron	(B)	ND	50	15,000
Soluble Cadmium	(Cd)	ND	10	17
Soluble Chromium	(Cr)	ND	0.15	--
Soluble Chromium (III) [#]	(Cr (III))	See Note [#]	1	460
Soluble Chromium (VI) [#]	(Cr (VI))	See Note [#]	0.18	0.2
Soluble Cobalt	(Co)	ND	10	130
Soluble Copper	(Cu)	ND	50	7,700
Soluble Lead	(Pb)	ND	10	160
Soluble Manganese	(Mn)	ND	50	15,000
Soluble Mercury	(Hg)	ND	10	94
Soluble Nickel	(Ni)	ND	15	930
Soluble Selenium	(Se)	ND	10	460
Soluble Strontium	(Sr)	ND	50	56,000
Soluble Tin	(Sn)	ND	4.9	180,000
Soluble Organic Tin [^]	--	See Note [^]	0.5	12
Soluble Zinc	(Zn)	ND	50	46,000
Comment		PASS	--	--

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Note:

- 1) mg/kg = milligram per kilogram
- 2) ND = Not Detected
- 3) 1% = 10000 mg/kg = 10000 ppm
- 4) [#] Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN71-3: 2013+ A1 2014
- 5) [^] Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN71-3: 2013+ A1 2014
- 6) Testing has been performed as per client's request.

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4. Mould Count Test:

S. No.	Test Name	Test Method Reference	Test Results	Unit
1	Mould count	IS 5403:1999(REAFF.2005)	<10	cfu/g

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Note:

1. Above test have been subcontracted to SGS approved lab.
2. cfu= Colony forming unit.
3. Testing has been performed as per client's request.



***** End of Report*****