



TEST REPORT

Report No. : GR:HL:5480028504

DATE : 04<sup>th</sup> November, 2014



J.K. ENTERPRISES.....
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422101
INDIA
CONTACT PERSON : MR.SANJAY SAHNI



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

SAMPLE DESCRIPTION "GRAPAGE" GRAPE GUARD SHEET
STYLE NO. 23.5 X 32-5GM,35X47-6.5GM,23.5 X 45-7GM, 35 X 40-8.5GM AND 35 X 47-10GM,
OTHER DETAILS INDIAN SEASON 2014-2015
COUNTRY OF ORIGIN INDIA
SAMPLE RECEIVING DATE 18/10/2014
TEST PERFORMING DATE 20/10/2014 TO 04/11/2014

Test Requested : Please refer to the result summary.

Test Method & Results : Please refer to next page(s).

Result Summary :

Table with 2 columns: Test Requested, Conclusion. Rows include testing as per Commission Regulation (EU) No 10/2011, Plastic - Overall Migration, DETERMINATION OF DIMETHYL FUMARATE (DMF) CONTENT TEST, Mould Count Test, and EN 71 Part 3 :2013 -Migration of certain Elements.

Per Pro SGS India Pvt. Ltd.

Handwritten signature

N.C.Manna
Asst. Manager
Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

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**Test Results:**

**1) Testing as per Commission Regulation (EU) No 10/2011.**

**a) Plastic – Overall Migration.**

Method : With reference to 82/711/EEC with its amendments and 2002/72/EC with its amendments for selection of condition and EN1186-1:2002 for selection of test method.

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

Sample Description :1. "GRAPAGE" GRAPE GUARD SHEET

- Note:
1. mg/dm<sup>2</sup> = milligram per square decimeter, mg/kg = milligram per kilograms
  2. °C = degree Celsius, < = less than
  3. MDL = Method Detection Limit, ND=Not Detected(<MDL)
  4. Method Detection Limit = 2 mg/dm<sup>2</sup>
  5. Test condition & simulant were specified by client
  6. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011.

**2. DETERMINE THE DIMETHYL FUMARATE CONTENT :**

Test Requested : To determine the Dimethyl Fumarate Contents in the submitted samples.  
 Test Method : Analysis was performed by Gas Chromatography Mass Spectrometry.  
 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** : Grapage, Grape Guard Sheet .

- Note:
- 1) ND = Not Detected
  - 2) mg/kg = milligrams/kilogram
  - 3) Above test is subcontracted to SGS approved lab.

**3 . Mould Count Test**

Analysis	Method	Result	Limit Reporting (LOR)	Unit
		1		
Mould	IS:5403:1999(Reaff. 2005)	< 10	10	cfu/25cm <sup>2</sup>

**Sample Discription** : Grapage, Grape Guard Sheet .

**Note:** Above test is subcontracted to SGS approved lab.

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**4) EN 71 Part 3 :2013 - Migration of certain elements**

**Category III : Polymeric material :**

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

Test Item		Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
		1		
Mass of trace amount	(mg)	--	--	--
Soluble Aluminium	(Al)	221.45	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	10	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 <sup>^</sup>	--	See Note <sup>^</sup>	0.5	12
Soluble Zinc	(Zn)	ND	50	46,000
<b>Comment</b>		PASS	--	--

**Sample description:** 1. "GRAPAGE" GRAPE GUARD SHEET (Polymeric material).

**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.
- 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.

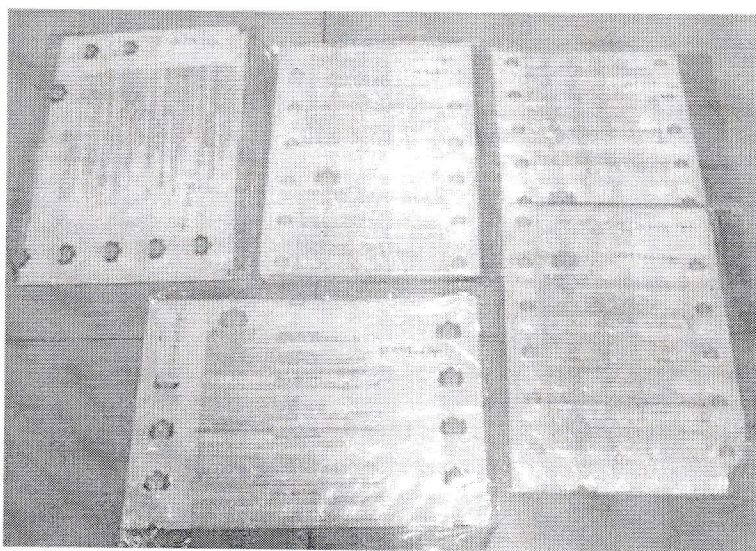
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Sample as Received



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