TEST REPORT
Report No. : MAN:HL:8480003173
DATE : 17 ${ }^{\text {th }}$ June, 2017
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J D JONES AND CO PRIVATE LIMITED
9B DR. MARTIN LUTHER KING SARANI, (WOOD STREET) $2^{\text {nd }}$ FLOOR
KOLKATA-700016
INDIA
CONTACT PERSON : MR. RAJIB ROY
THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :
SAMPLE DESCRIPTION
COLOUR
STYLE NO.
SAMPLE RECD ON
GLAND PACKING
YELLOW
PACMAAN NA 747
27/05/2017
TEST PERFORMING DATE
30/05/2017 TO 17/06/2017
RESULT SUMMARY

| TESTS NAME | COMMENTS |
| :--- | :---: |
| 1.Testing as per Commission Regulation (EU) No 10/2011 of <br> 14 January 2011 and hence Article 3 of European Regulation <br> No. 1935/2004. (As per client's request) | --- |
| a) Overall Migration | Pass |
| b) Specific Migration of Heavy Metals | Pass |
| 2. Polycyclic Aromatic Hydrocarbon (PAH) | See results |
| 3.Sensorial examination odour and taste test | Pass |

Per Pro SGS India Pvt Ltd.


Kapil Patil
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) Overall Migration :

Test Method : With reference to EN 1186

| Simulant Used | Test Condition | Result(mg/dm ${ }^{2}$ ) | Permissible Limit(mg/dm ${ }^{2}$ ) |
| :--- | :---: | :---: | :---: |
| Distilled Water | 10 Days at $40^{\circ} \mathrm{C}$ | 5.5 | 10 |
| Comment | -- | PASS | -- |

## Sample Description : GLAND PACKING

Note: $\quad 1 . \mathrm{mg} / \mathrm{dm}^{2}=$ milligram per square decimeter.
2. ${ }^{\circ} \mathrm{C}=$ 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 with amendments.
5.Testing has been performed as per the Client's request.

## b) Specific Migration of Heavy Metals :

Test Method: With reference to EN 13130-1:2004. Analysis was performed by ICP-OES.
Simulant Used : 3\% Acetic Acid (W/V) Aqueous Solution
Test Condition : 10 Days at $60^{\circ} \mathrm{C}$

| Test Item | Result (mg/kg) | Reporting Limit <br> $(\mathrm{mg} / \mathrm{kg})$ | Permissible Limit <br> $(\mathrm{mg} / \mathrm{kg})$ |
| :--- | :---: | :---: | :---: |
| Specific Migration of Barium | ND | 0.25 | 1 |
| Specific Migration of Cobalt | ND | 0.01 | 0.05 |
| Specific Migration of Copper | ND | 0.25 | 5 |
| Specific Migration of Iron | ND | 0.25 | 48 |
| Specific Migration of Lithium | ND | 0.5 | 0.6 |
| Specific Migration of Manganese | ND | 0.25 | 0.6 |
| Specific Migration of Zinc | ND | 0.5 | 25 |
| Comment | PASS | -- | -- |

## Sample Description : GLAND PACKING

Note: 1. $\mathrm{mg} / \mathrm{kg}=$ milligram per kilograms
2. ${ }^{\circ} \mathrm{C}=$ degree Celsius, $<=$ less than
3. MDL $=$ Method Detection Limit, ND=Not Detected( $<$ MDL)
4. Test condition \& simulant were specified by client
5. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
6. Testing has been performed as per the Client's request

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## 2. POLYCYCLIC AROMATIC HYDROCARBON (PAH):

Test Method: With reference to AFPS GS 2014:01 PAK. Analysis was conducted by Gas Chromatography- Mass Spectrometry.

| Test Item | CAS Number | RESULTS (mg/kg) | $\frac{\text { Reporting Limit }}{(\mathrm{mg} / \mathrm{kg})}$ |
| :---: | :---: | :---: | :---: |
| Naphthalene (NAP) | 91-20-3 | ND | $5 \mathrm{mg} / \mathrm{kg}$ |
| Acenaphthylene (ANY) | 208-96-8 | ND |  |
| Acenaphthene (ANA) | 83-32-9 | ND |  |
| Fluorene (FLU) | 86-73-7 | ND |  |
| Phenanthrene (PHE) | 85-01-8 | ND |  |
| Anthracene (ANT) | 120-12-7 | ND |  |
| Fluoranthene (FLT) | 206-44-0 | ND |  |
| Pyrene (PYR) | 129-00-0 | ND |  |
| Benzo(a)anthracene (BaA) | 56-55-3 | ND |  |
| Chrysene (CHR) | 218-01-9 | ND |  |
| Benzo(b)fluoranthene (BbF) | 205-99-2 | ND |  |
| Benzo(j)fluoranthene(BjF) | 205-82-3 | ND |  |
| Benzo(k)fluoranthene (BkF) | 207-08-9 | ND |  |
| Benzo(a)pyrene (BaP) | 50-32-8 | ND |  |
| Indeno(1,2,3-c,d)pyrene (IPY) | 193-39-5 | ND |  |
| Dibenzo(a,h)anthracene (DBA) | 53-70-3 | ND |  |
| Benzo(g,h,i)perylene (BPE) | 191-24-2 | ND |  |
| Benzo(e)pyrene(BeP) | 192-97-2 | ND |  |
| Sum of 18 PAHs | -- | ND |  |
| Comment | -- | See GS PAH Requirement |  |

## Tested Sample Description: GLAND PACKING

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AfPS (German commission for Product Safety) : GS PAHs requirements

| Polycyclic Aromatic Hydrocarbon | Category 1 | Category 2 |  | Category 3 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Materials intended to be placed in the mouth or toys with intended prolonged skin contact | Materials not falling under Category 1, with foreseeable skin contact longer than 30seconds <br> (long term skin or frequent contact) |  | Materials not falling underCategory 1 or 2 , withforeseeable skin contact lessthan 30 seconds(short-term skin contact) |  |
|  | $\begin{gathered} (>30 \\ \text { seconds) } \\ (\mathrm{mg} / \mathrm{kg}) \end{gathered}$ | Toys (TSD) ( $\mathrm{mg} / \mathrm{kg}$ ) | Other products according to ProdSG ( $\mathrm{mg} / \mathrm{kg}$ ) | Toys (TSD) (mg/kg) | Other products according to ProdSG (mg/kg) |
| Benzo[a]pyrene | $<0.2$ | $<0.2$ | $<0.5$ | $<0.5$ | $<1$ |
| Benzo[e]pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | $<1$ |
| Benzo[a]anthracene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | <1 |
| Dibenzo[a,h]anthracene | < 0.2 | < 0.2 | $<0.5$ | $<0.5$ | $<1$ |
| Benzo[b]fluoranthene | $<0.2$ | $<0.2$ | $<0.5$ | $<0.5$ | $<1$ |
| Benzo[j]fluoranthene | $<0.2$ | $<0.2$ | $<0.5$ | $<0.5$ | $<1$ |
| Benzo[k]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | <1 |
| Chrysene | < 0.2 | < 0.2 | $<0.5$ | $<0.5$ | <1 |
| Benzo[g,h,i]perylene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | $<1$ |
| Ideno[1,2,3-cd]pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | $<1$ |
| Acenaphthylene | < 1 (sum) | < 5 (sum) | $<10$ (sum) | < 20 (sum) | < 50 (sum) |
| Acenaphthene |  |  |  |  |  |
| Anthracene |  |  |  |  |  |
| Fluorene |  |  |  |  |  |
| Fluoranthene |  |  |  |  |  |
| Phenanthrene |  |  |  |  |  |
| Pyrene |  |  |  |  |  |
| Naphthalene | $<1$ | $<2$ | $<2$ | $<10$ | $<10$ |
| Sum of 18 PAHs | $<1$ | < 5 | $<10$ | $<20$ | $<50$ |

## Note :

1. $\mathrm{mg} / \mathrm{kg}=$ milligram per kilogram
2. $N D=$ Not Detected
3. Testing has been subcontracted to SGS approved lab.

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Consumer and Retail, Plot no. 21, Sector 3, IMT Manesar, Gurgaon District, Haryana-122050 (India) t: (+91-124 678 7600)

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## 3. Sensorial examination odour and taste test

Test Requested : In accordance with French Decret, French Decret 2007-766, French recommendation DGCCRF and Regulation (EC) No 1935/2004 of the European parlianment and of the Council of 27 October 2004.

Test Method : $\quad$ With reference to DIN 10955:1983 (2004)
Test media: Distilled water
No.of panelist: 6

| Test Item(s) | Limit | Result |
| :--- | :---: | :---: | :---: |
| Test time $(\mathrm{hr}(\mathrm{s})$ ) | - | 240 |
| Temperature $\left({ }^{\circ} \mathrm{C}\right)$ | - | 60 |
| Sensorial examination odour (Point scale) | 2.5 | 2 |
| Sensorial examination taste (Point scale) | 2.5 | 2 |
| Conclusion |  | PASS |

## SAMPLE DESCRIPTION: GLAND PACKING

Notes:
Scale evaluation:
0 - no perceptible difference
1 - just perceptible difference
2 - slight difference
3 - marked difference
4 - strong difference

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

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