

**TEST REPORT**

**Report No. : PN:HL:4490005770**

**DATE : 27/11/2013**

**AVIGLOBAL PLAST PRIVATE LIMITED**

SURVEY NO. : 266/4, 5, 6; 269/4; 268/1, COASTAL HIGHWAY, VILLAGE DUNETHA,  
DAMAN-396210

INDIA

**CONTACT PERSON : Mr. PRASHANT MALAWE**

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

<b>SAMPLE DESCRIPTION</b>	PET RIGID FILM G-PET
<b>COLOUR</b>	PGM902NY100S001
<b>REFERENCE NO.</b>	G-PET SHEETS
<b>SAMPLE RECD ON</b>	15/11/2013 <b>TESTING PERIOD : 15/11/2013 to 27/11/2013</b>
<b>TEST(S) REQUESTED</b>	OVER ALL MIGRATION (SIMULANT A, B, C1, C2, & D) COLOR MIGRATION HEAVY METALS IN COLORANTS TOTAL AROMATIC AMINES HEAVY METALS & METAL COMPOUNDS (RESIDUAL CATALYST)

**TEST RESULTS**

**1. Simulants "A, B, C1, C2 & D"**

<b>SIMULANT USED</b>	<b>TEST METHOD</b>	<b>RESULTS (mg/dm<sup>2</sup>)</b>	<b>MAXIMUM PERMISSIBLE LIMIT (mg/dm<sup>2</sup>)</b>
Overall Migration – "Simulant A" (at 40°C for 10 days)	IS 9845	<2.0	10
Overall Migration – "Simulant B" (at 40°C for 10 days)	IS 9845	<2.0	10
Overall Migration – "Simulant C1" (at 40°C for 10 days)	IS 9845	<2.0	10
Overall Migration – "Simulant C2" (at 40°C for 10 days)	IS 9845	<2.0	10
Overall Migration – "Simulant D" (at 40°C for 10 days)	IS 9845	<2.0	10

**Conclusion: Comply with limits set for above Simulants by IS 9845**

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**2. Color Migration:**

TEST NAME	TEST METHOD	RESULTS
Color Migration	AP 89/BFR	Negative (No color observed)

**3. Heavy Metals in colorants : (N/10 HCL Solution)**

HEAVY METAL	TEST METHOD	RESULTS In % by mass	ACCEPTANCE CRITERIA (% by Mass)
Lead	IS 9833	<0.0005	0.01
Arsenic	IS 9833	<0.0005	0.005
Mercury	IS 9833	<0.0005	0.005
Cadmium	IS 9833	<0.0005	0.010
Zinc	IS 9833	<0.0005	0.05
Selenium	IS 9833	<0.0005	0.01
Barium	IS 9833	<0.0005	0.01
Chromium	IS 9833	<0.0005	0.025
Antimony	IS 9833	<0.0005	0.025

**Conclusion: Comply with limits set for above Heavy Metals by IS 9833**

**4. Total Aromatic Amines : By LC-MS**

TEST NAME	TEST METHOD	RESULTS In % by mass	ACCEPTANCE CRITERIA (% by Mass)
Total Aromatic Amines	IS 9833	<0.0005	0.05

**Conclusion: Comply with limits set for above parameter by IS 9833**

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**5. Heavy Metals & Metal Compound-Residual Catalyst:**

HEAVY METAL	TEST METHOD	RESULTS (mg/kg)	ACCEPTANCE CRITERIA (mg/kg) Max
Antimony	IS 12229	36.12	350
Cobalt	IS 12229	12	125
Lithium	IS 12229	<10	130
Manganese	IS 12229	<10	80
Zinc	IS 12229	19.5	80

**Conclusion: Comply with limits set for above Heavy Metals-Metal compound (Residual Catalyst) by IS 12229**

**Comment:** The said product was tested as per various requirement of IS 12252 (specification for PET & PBT for their safe use in contact with foodstuffs, pharmaceuticals & drinking water) and the product complies with tested parameter.

**Note:** Above Test Parameter has been subcontracted to SGS Approved Lab

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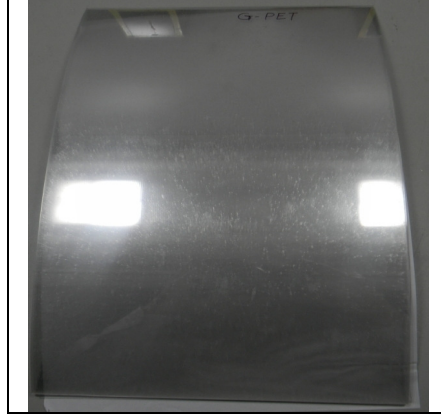
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Sample Photo (as received):



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\*\*\*\* END OF REPORT\*\*\*

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