

Test Report

No. KE/2015/A2068

Date : Oct 27, 2015

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DONG GUAN UGET PLASTICS CO., LTD.
TANKENG 3RD IND. ZONE, HENGLI TOWN, DONGGUAN CITY, CHINA

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Report on the submitted sample said to be:

Sample Description : Transparent TPU Pellets
Amount of Sample : One
Buyer's Name / Division : Adidas Footwear
Summary of Test Result : **Pass**
Failure Test Items : ---
Age Group : All Ages
Material Name / Code : Thermoplastic Polyurethane Elastomer
Color Name / Code : Transparent
Supplier Name : Dong Guan Uget Plastics Co., Ltd.
Country of Origin : China
Country of Destination : ---
Material Component : TPU
Sample Classification : TPU materials (202)
Test Required Key Code No. : Key code 202 under Adidas A-01 Test Standard 2015
Report Type : Full Test (FT)
Full Test Report No. : ---
(Only for SC*/NT*/IT*/ST*) : ---
P.O. No. : ---
Additional Information : ---
Sample Received Date : Oct 21, 2015
Sample Tested Date : Oct 21 ~ Oct 27, 2015
Sample Submitted by : Dong Guan Uget Plastics Co., Ltd.

Note: (SC*)(NT*)(IT*)(ST*) mark the full test reports No. ; (RT) this application just for T1 shoes factory; (SI) it is for supplier only and will not acceptable for adidas.

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Summary of Test Result: (Detail test results on next page)

| Test Parameter | Test Method | Conclusion (Pass/Fail) |
|---|---|------------------------|
| Extractable Heavy Metals | Extraction in acidic perspiration solution: DIN EN ISO 105 E04:2013 in acid solution, Analysis by ICP-OES: DIN EN ISO 12846:2012/ DIN EN ISO 11885:2009 | Pass |
| Total Cadmium | Polymers: Pre-treatment: EN 1122:2001 Analysis by ICP-OES: DIN EN ISO 11885:2009 | Pass |
| Total Lead | Non-metal parts: Pre-treatment: Microwave digestion with H ₂ O ₂ /HNO ₃ Analysis by ICP-OES: DIN EN ISO 11885:2009 | Pass |
| Organotin Compounds | ISO/TS 16179:2012 | Pass |
| Σ Phthalates | Dichloromethane with ASE Measurement with GC-MS | Pass |
| Σ Nonylphenol (NP), Octylphenol (OP), Nonylphenol ethoxylate (NPEO), Octylphenol ethoxylate (OPEO) | NP,OP: Solvent Extraction, Analysis by LC-MS NPEO,OPEO: Textiles: Draft DIN EN ISO 18254 (2014) | Pass |

Sample Photo

KE/2015/A2068




Jerry Tung / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited



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Component List / List of Materials

| Component No. | Component | Material |
|---------------|-------------------------|----------|
| 1 | Transparent TPU Pellets | TPU |

Detail Test Results:

Extractable Heavy Metals

Test Method: Extraction in acidic perspiration solution - DIN EN ISO 105-E04:2013.
Analysis by ICP-OES / ICP-MS - DIN EN ISO 11885: 2009 and DIN EN ISO 12846:2012.

| | CAS-No. | Result |
|-------------------|-----------|-------------|
| | | <u>1</u> |
| Cadmium (Cd) | 7440-43-9 | n.d. |
| Chromium (Cr) | 7440-47-3 | n.d. |
| Lead (Pb) | 7439-92-1 | n.d. |
| Mercury (Hg) | 7439-97-6 | n.d. |
| Conclusion | -- | PASS |

Note: n.d. = not detected

| Client's Requirement | Infants (ppm) | Adults (ppm) | Detection Limit (ppm) |
|----------------------|---------------|--------------|-----------------------|
| Cadmium | 0.1 | 0.1 | 0.1 |
| Chromium | 1.0 | 2.0 | 1.0 |
| Lead | 0.2 | 1.0 | 0.2 |
| Mercury | 0.02 | 0.02 | 0.02 |

Total Cadmium

Test Method: Polymers: Acid digestion – EN 1122:2001
Analysis by ICP-OES - DIN EN ISO 11885:2009.

| | CAS No. | Result |
|-------------------|-----------|-------------|
| | | <u>1</u> |
| Cadmium (Cd) | 7440-43-9 | n.d. |
| Conclusion | | PASS |

Note: n.d. = not detected
Detection Limit = 5 ppm

Client's Requirement 40 ppm

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Total Lead

Test Method: Non metal: Pretreatment by Microwave digestion with H₂O₂/HNO₃
Analysis by ICP-OES: DIN EN ISO 11885: 2009

| | <u>CAS No.</u> | <u>Result</u> |
|-------------------|----------------|---------------|
| | | <u>1</u> |
| Total Lead | 7439-92-1 | n.d. |
| Conclusion | | PASS |

Note: n.d. = not detected
Detection Limit = 5 ppm

Client's Requirement 40 ppm

Organotin Compounds

Test Method: ISO/TS 16179:2012. Analysis was performed by GC-MS.

| <u>Organotins</u> | <u>Result</u> |
|---------------------|---------------|
| | <u>1</u> |
| Tributyltin (TBT) | n.d. |
| Triphenyltin (TPhT) | n.d. |
| Dibutyltin (DBT) | n.d. |
| Diocetyl tin (DOT) | n.d. |
| Conclusion | PASS |

Note: n.d. = not detected
Detection Limit = 0.05 ppm (for individual compound)

Client's Requirement:

TBT Not Detected
DBT 1 ppm
TPhT 0.5 ppm (Infants) / 1 ppm (Adults)
DOT 1 ppm

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Phthalates

Test Method: Dichloromethane with ASE. Analysis was performed by GC/MS

| | <u>CAS No.</u> | <u>Result</u> |
|--|----------------|---------------|
| | | <u>1</u> |
| Diisononylphthalate (DINP) | 28553-12-0 | n.d. |
| Di- <i>n</i> -octylphthalate (DNOP) | 117-84-0 | n.d. |
| Di(2-ethylhexyl)phthalate (DEHP) | 117-81-7 | n.d. |
| Diisodecylphthalate (DIDP) | 26761-40-0 | n.d. |
| Butylbenzylphthalate (BBP) | 85-68-7 | n.d. |
| Dibutylphthalate (DBP) | 84-74-2 | n.d. |
| Diisobutylphthalate (DIBP) | 84-69-5 | n.d. |
| Di-C6-8-branched alkylphthalates (DIHP) | 71888-89-6 | n.d. |
| Di-C711-branched alkylphthalates (DHNUP) | 68515-42-4 | n.d. |
| Di- <i>n</i> -hexylphthalate (DHP) | 84-75-3 | n.d. |
| Di-(2-methoxyethyl)-phthalate (DMEP) | 117-82-8 | n.d. |
| Dipentylphthalate (DPP) | 131-18-0 | n.d. |
| Total | | n.d. |
| Conclusion | | PASS |

Note: n.d. = not detected

Detection Limit:

DBP, BBP, DEHP, DIBP, DHP, DMEP, DNOP, DPP: 30 ppm (for individual compound).

DINP, DIDP, DHNUP, DIHP: 100 ppm (for individual compound)

Client's Requirement 500 ppm (Total)

Σ of NP,OP, NPEO and OPEO

Test Method:

NP, OP: Solvent Extraction. Analysis was performed by LC-MS.

NPEO, OPEO: Textile: Draft DIN EN ISO 18254:2014.

| | <u>Result</u> |
|--------------------------------|---------------|
| | <u>1</u> |
| Nonylphenol (NP) | n.d. |
| Octylphenol (OP) | n.d. |
| Nonylphenol ethoxylates (NPEO) | n.d. |
| Octylphenol ethoxylates (OPEO) | n.d. |
| Σ of NP,OP, NPEO and OPEO | n.d. |
| Conclusion | PASS |

Note: n.d. = not detected

Detection Limit = 3 ppm

**Client's Requirement 250 ppm (sum of NP, OP, NPEO and OPEO)
10 ppm (NP)
10 ppm (OP)**

*** End of Report ***

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