

Test Report

No. KE/2020/11534

Report Issue Date: Feb 06, 2020

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HANWHA CHEMICAL MALAYSIA SDN. BHD.
22.04 LEVEL 22 MENARA CITIBANK 165 JALAN AMPANG 50450 KUALA LUMPUR MALAYSIA

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 : Ethylene Vinyl Acetate (EVA)
Division : Footwear Division
Buyer's Name : Adidas
Summary of Test Result : **Pass**
Failure Test Items : ---
Age Group : Adults
Material Name / Code : EVA/ EVA 2518 CO
Color Name / Code : Clear
Material Component : EVA
Lot No./Purchase/Order No. : 20010701
Supplier Name : International Polymers Company
Supplier Contact Person : ---
Country of Supplier : Saudi Arabia
Country of Destination : Saudi Arabia
Sample Classification : EVA materials (200)
Test Required Key Code No. : Key code 200 under Adidas A-01 Test Standard 2019
Report Type : Full Test (FT)
Full Test Report No. : ---
Additional Information : Finished Product Factory: Pouchen Group
Sample Received Date : Jan 31, 2020
Sample Tested Date : Jan 31, 2020 To Feb 06, 2020
Sample Submitted by : Hanwha Chemical Malaysia Sdn. Bhd.

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

Test Parameter	Test Method	Conclusion (Pass/Fail)
Extractable Heavy Metals	Others: DIN EN 16711-2:2016 Analysis by ICP-MS - DIN EN ISO 11885: 2009 and DIN EN ISO 12846:2012	Pass
Total Cadmium	Polymers: Acid digestion – EN 1122:2001 Analysis by ICP-OES: DIN EN ISO 11885:2009	Pass
Total Lead	Others: DIN EN 16711-1:2016 Analysis by ICP-OES: DIN EN ISO 11885: 2009	Pass
Organotin Compounds	ISO/TS 16179:2012. Analysis by GC-MS.	Pass
Σ Phthalates	DIN EN ISO 14389:2014. Analysis by GC-MS.	Pass
Σ Nonylphenol (NP), Octylphenol (OP), Nonylphenol ethoxylate (NPEO), Octylphenol ethoxylate (OPEO)	NP,OP: Extraction with THF. NPEO,OPEO: Non-leather: DIN EN ISO 18254-1:2016. Analysis by LC-MS.	Pass
Nonylphenol (NP)	Extraction with THF. Analysis by LC-MS	Pass
Octylphenol (OP)	Extraction with THF. Analysis by LC-MS	Pass
Acetophenone	Extraction in methanol, Analysis by GC/MS	Pass
2-Phenyl-2-propanol	Extraction in methanol, Analysis by GC/MS	Pass

Sample Photo

KE/2020/11534



Ray Chang

Ray Chang Ph.D. / Manager - Tech

Signed for and on behalf of
SGS Taiwan Limited

Chemical Laboratory-Kaohsiung



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Component List / List of Materials

Article No.	Material No.	Component	Material
A	1	Clear Pellets	Plastic

Detail Test Results:

Extractable Heavy Metals

Test Method: Others: With reference to DIN EN 16711-2:2016. Analysis was performed by ICP-MS.

	CAS-No.	Result
		1
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

Requirement:	Adults (ppm)	Reporting Limit (ppm)
Cadmium	0.1	0.03
Chromium	2.0	0.3
Lead	1.0	0.06
Mercury	0.02	0.006

Total Cadmium

Test Method: Polymers: With reference to EN 1122:2001. Analysis was performed by ICP-OES.

	CAS No.	Result
		1
Cadmium (Cd)	7440-43-9	n.d.
Conclusion		PASS

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

Requirement: 40 ppm

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Total Lead

Test Method: Others: With reference to DIN EN 16711-1:2016. Analysis was performed by ICP-OES.

	CAS No.	Result
		1
Total Lead	7439-92-1	n.d.
Conclusion		PASS

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

Requirement: 40 ppm

Organotin Compounds

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

	CAS-No.	Result
		1
Tributyltin (TBT)	--	n.d.
Triphenyltin (TPhT)	--	n.d.
Dibutyltin (DBT)	--	n.d.
Diocetyl tin (DOT)	--	n.d.
Monobutyltin (MBT)	--	n.d.
Monooctyltin (MOT)	--	n.d.
Triocetyl tin (TOT)	--	n.d.
Conclusion	--	PASS

Note: n.d. = not detected
Reporting Limit:
TBT = 0.05 ppm
Others = 0.1 ppm (for individual compound)

Requirement:

TBT	Not Detected
TPhT	0.5 ppm
DBT	1 ppm
DOT	1 ppm
MBT	1 ppm
MOT	1 ppm
TOT	1 ppm

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Phthalates

Test Method: With reference to DIN EN ISO 14389:2014. Analysis was performed by GC-MS.

	CAS No.	Result
		1
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.
Dicyclohexyl phthalate (DCHP)	84-61-7	n.d.
Diisopentylphthalate (DiPP)	605-50-5	n.d.
Total	--	n.d.
Conclusion	--	PASS

Ratio of the mass of plasticized materials against the treated textile product	--	N/A
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Note: n.d. = not detected
N/A = Not applicable

Reporting Limit = 50 ppm (for individual compound)

Requirement: 500 ppm (Total)

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Σ of NP, OP, NPEO and OPEO

Test Method:

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

NPEO, OPEO: Textile and Non-leather: With reference to DIN EN ISO 18254-1:2016. Analysis was performed by LC-MS.

	Result
	1
Nonylphenol (NP)	n.d.
Octylphenol (OP)	n.d.
Nonylphenol ethoxylates (NPEO)	n.d.
Octylphenol ethoxylates (OPEO)	n.d.
Sum of NP,OP, NPEO and OPEO	n.d.
Conclusion	PASS

Note: n.d. = not detected
Reporting limit = 3 ppm (NP, OP); 5 ppm (NPEO, OPEO)

Requirement:

Nonylphenol (NP)	10 ppm
Octylphenol (OP)	10 ppm
Sum of NP, OP, NPEO and OPEO	100 ppm

Acetophenone, 2-Phenyl-2-Propanol

Test Method: Extraction with methanol. Analysis was performed by GC-MS

	CAS No.	Result
		1
Acetophenone	98-86-2	n.d.
2-Phenyl-2-propanol	617-94-7	n.d.
Conclusion		PASS

Note: n.d. = not detected
Reporting Limit = 5 ppm (for individual compound)

Requirement: 50 ppm (for individual compound)

*** End of Report ***