

Test Report

No. KE/2019/31354

Date : Mar 22, 2019

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FORMOSA PLASTICS CORPORATION
NO. 1, FORMOSA INDUSTRIAL COMPLEX, MAILIAO
VILLAGE, YUNLIN COUNTRY.

New Balance RS Test Report

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

Buyer : New Balance – Footwear
Previous Report No. : /
Material Name : Taisox EVA
Material Description : EVA
Style No. : (1)7320M , (2)7350M , (3)7360M
Quarter / Season : All Season
Color Key / Color ID : (1)Translucence , (2) Translucence , (3) Translucence
Sample Type : Sole
Age Group : Children / Adults
Test Category : Quarterly Test
Test Group : Polymer
Material Supplier Name : Formosa Plastics Corporation
Country of Origin : Taiwan
Sample Submitted By : Formosa Plastics Corporation
Sample Receiving Date : Mar 18, 2019
Test Performing Period : Mar 18, 2019 ~ Mar 22, 2019
Test Performed : Selected test(s) as requested by applicant against New Balance performance standard (RSM Version 2019).

Overall conclusion : PASS

Test parameters	Result	Material list	Failed results	
			Material no.*	Results
Core tests				
AP & APEO	Pass	1+2+3	-	-
Organotins	Pass	1+2+3	-	-
Total Heavy Metals	Pass	1+2+3	-	-
Phthalates	Pass	1+2+3	-	-
PAHs	Pass	1+2+3	-	-

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Remarks

*Please refer to component list

Note: Conclusions are based on the test result from the actual sampling of the received sample(s).
The composite sampling method is based on the client's special request and is a modification from the testing standard.

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

Sample	Material no.	Description	Material
A	1	Translucence EVA 7320M	Plastic
B	2	Translucence EVA 7350M	Plastic
C	3	Translucence EVA 7360M	Plastic

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Test Results

AP & APEO

Test Method: Others: THF extraction (70°C, 60 min), ACN precipitation, analysis by GC-MS or LC-MS.

	CAS No.	Result 1+2+3
Nonylphenols (NP)	--	n.d.
Octylphenols (OP)	--	n.d.
Sum of NP and OP	--	n.d.
Nonylphenol Ethoxylates (NPEO)	--	n.d.
Octylphenol Ethoxylates (OPEO)	--	n.d.
Sum of NPEO and OPEO	--	n.d.
Conclusion	--	PASS

Note: n.d. = not detected
mg/kg = ppm
Detection limit:
NP, OP = 10 mg/kg;
NPEO, OPEO = 30 mg/kg

Requirement:
NP & OP 100 mg/kg (Sum)
NPEO & OPEO 100 mg/kg (Sum)

Organotins

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

	CAS-No.	Result 1+2+3
Dibutyltin (DBT)	--	n.d.
Monobutyltin (MBT)	--	n.d.
Diocetyl tin (DOT)	--	n.d.
Tricyclohexyltin (TCyT)	--	n.d.
Trimethyltin (TMT)	--	n.d.
Triocetyl tin (TOT)	--	n.d.
Tripropyltin (TPT)	--	n.d.
Tributyltin (TBT)	--	n.d.
Triphenyltin (TPhT)	--	n.d.
Sum of TBT and TPhT	--	n.d.
Conclusion	--	PASS

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Note: n.d. = not detected
mg/kg = ppm
Detection limit: 0.05 mg/kg (for individual compound)

Requirement:
Sum of TBT & TPhT 0.5 mg/kg (sum)
Others 1.0 mg/kg (for individual compound)

Total Heavy Metals

Test Method: Total digestion – Microwave digestion, ICP-MS analysis.
Mercury (confirmation): With reference to IEC 62321, Analysis with the use of ICP-MS.

	CAS-No.	Result
		1+2+3
Lead (Pb)	7439-92-1	n.d.
Mercury (Hg)	7439-97-6	n.d.
Cadmium (Cd)	7440-43-9	n.d.
Conclusion	--	PASS
Arsenic (As)	7440-38-2	n.d.
Antimony (Sb)	7440-36-0	n.d.
Cobalt (Co)	7440-48-4	n.d.
Barium (Ba)	7440-39-3	n.d.
Chromium (Cr)	7440-47-3	n.d.
Selenium (Se)	77882-49-2	n.d.
Conclusion	--	INFO ONLY

Note: n.d. = not detected
mg/kg = ppm
Detection Limit:
Others 5 mg/kg (for individual compound)
Mercury (Hg) 0.1 mg/kg

Requirement:
Lead 90 mg/kg
Mercury 0.5 mg/kg
Cadmium 40 mg/kg
Arsenic Data Collecting
Antimony Data Collecting
Cobalt Data Collecting
Barium Data Collecting
Chromium Data Collecting
Selenium Data Collecting

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Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4 Analysis was performed by GC-MS.
Confirmation by using HPLC-MS

	CAS-No.	Result
		1+2+3
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	n.d.
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	n.d.
Di- <i>n</i> -octyl Phthalate (DNOP)	117-84-0	n.d.
Diisodecyl Phthalate (DIDP)	26761-40-0	n.d.
Diisononyl Phthalate (DINP)	28553-12-0	n.d.
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	n.d.
1,2-Benzenedicarboxylic acid, di-C6-8-branched and linear alkyl esters, C7 rich (DIHP)	71888-89-6	n.d.
Dicyclohexyl phthalate (DCHP)	84-61-7	n.d.
Di- <i>n</i> -hexyl Phthalate (DnHP)	84-75-3	n.d.
Dibutyl Phthalate (DBP)	84-74-2	n.d.
Diiso butyl Phthalate (DIBP)	84-69-5	n.d.
Butylbenzyl Phthalate (BBP)	85-68-7	n.d.
Dipentylphthalate (DPP)	131-18-0	n.d.
Diisopentylphthalate (DIPP)	605-50-5	n.d.
<i>n</i> -Pentyl-isopentylphthalate (NPIPP)	776297-69-9	n.d.
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	n.d.
1,2-Benzenedicarboxylic acid, dihexylester, branched and linear (DHP)	68515-50-4	n.d.
Dimethyl phthalate (DMP)	131-11-3	n.d.
Diethyl phthalate (DEP)	84-66-2	n.d.
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5; 68648-93-1	n.d.
Sum of all Phthalates	--	n.d.
Conclusion	--	PASS

Note: n.d. = not detected
mg/kg = ppm
Detection limit: 50 mg/kg (for individual compound)

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Requirement:

500 mg/kg (sum)

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC-MS.

	CAS-No.	Result
		1+2+3
Benzo[a]pyrene (BaP)	50-32-8	n.d.
Benzo[e]pyrene (BeP)	192-97-2	n.d.
Benzo[a]anthracene (BaA)	56-55-3	n.d.
Chrysene (CHR)	218-01-9	n.d.
Benzo[b]fluoranthene (BbFA)	205-99-2	n.d.
Benzo[j]fluoranthene (BjFA)	205-82-3	n.d.
Benzo[k]fluoranthene (BkFA)	207-08-9	n.d.
Dibenz[a,h] anthracene (DBAhA)	53-70-3	n.d.
Anthracene	120-12-7	n.d.
Pyrene	129-00-0	n.d.
Benzo[ghi]perylene	191-24-2	n.d.
Indeno[1,2,3-cd]pyrene	193-39-5	n.d.
Fluoranthene	206-44-0	n.d.
Acenaphthylene	208-96-8	n.d.
Anenaphthene	83-32-9	n.d.
Phenanthrene	85-01-8	n.d.
Fluorene	86-73-7	n.d.
Naphthalene	91-20-3	n.d.
Sum of 18 PAHs	--	n.d.
Conclusion	--	PASS

Note: n.d. = Not detected
mg/kg = ppm
Detection Limit: 0.1 mg/kg (for individual compound)

Requirement:

Benzo[a]pyrene (BaP)	1 mg/kg
Benzo[e]pyrene (BeP)	1 mg/kg
Benzo[a]anthracene (BaA)	1 mg/kg
Chrysene (CHR)	1 mg/kg

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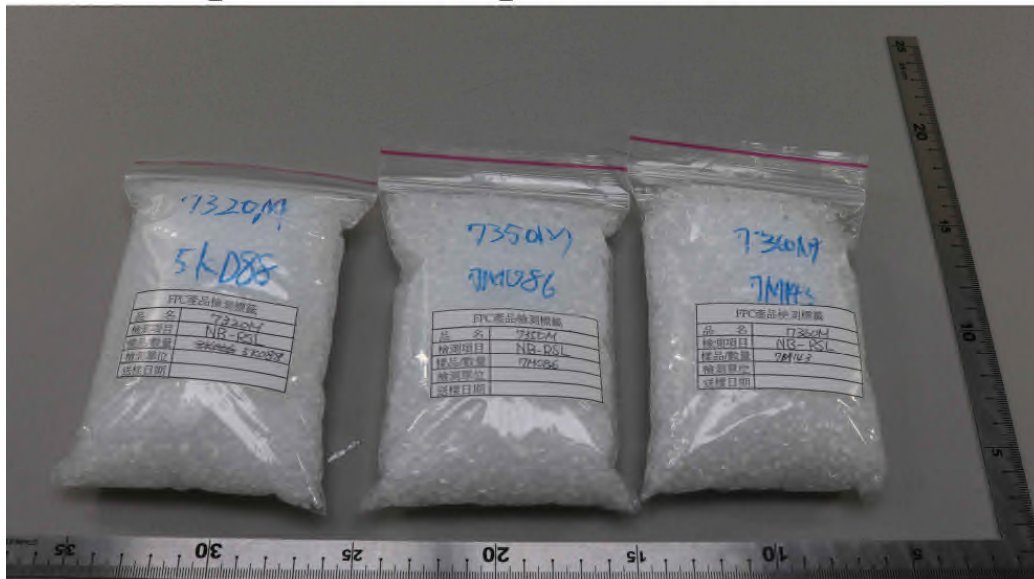
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Benzo[b]fluoranthene (BbFA)	1 mg/kg
Benzo[j]fluoranthene (BjFA)	1 mg/kg
Benzo[k]fluoranthene (BkFA)	1 mg/kg
Dibenz[a,h] anthracene (DBAhA)	1 mg/kg
Sum of 18 PAH	10 mg/kg

Sample Photo

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*** End of report***

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