

HUIZHOU YIRUN SILICONE CO.,LTD
7TH BUILDING DONGTAIHENG INDUSTRIAL DISTRICT,XINXU,HUIYANG AREA HUIZHOU
CITY, GUANGDONG China

The following sample was submitted and identified by the client as:

Sample Description	:	silicone
Color Name	:	(A)/
Color Code	:	/
Graphic Colorway& Color Description	:	/
Material or Item No.	:	/
Product or Style Number(SKU/SR#)	:	/
Product type	:	Equipment
Material Name	:	/
Material type	:	/
Sample type	:	Production-ready material
Season	:	SP
Date Sample Made	:	2020.7.24
Date Sample Submitted	:	/
Country of origin	:	China
Previous Report No.(Re-test)	:	/
Additional Information	:	/
Sample Receiving Date	:	Jul 28, 2020
Test Performing Period	:	Jul 28, 2020 - Aug 04, 2020
Test Results	:	Please refer to the next page(s).



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Conclusion		Remark
Alkylphenol Ethoxylates (APEOs) - All materials except leather	M	
Alkylphenols (APs)	M	
Total Heavy Metal - All materials except leather	M	
Total Lead Content - Non-metal	M	
Organotin Compounds	M	
Phthalates	M	
Volatile organic compounds (VOCs)	M	
Polyvinyl Chloride(PVC)	M	
Formaldehyde	M	
Vinyl Chloride Monomer(VCM)	M	

Remark(s) : M = Meets Client's Requirement.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Hanson Chen (Approved Signatory)

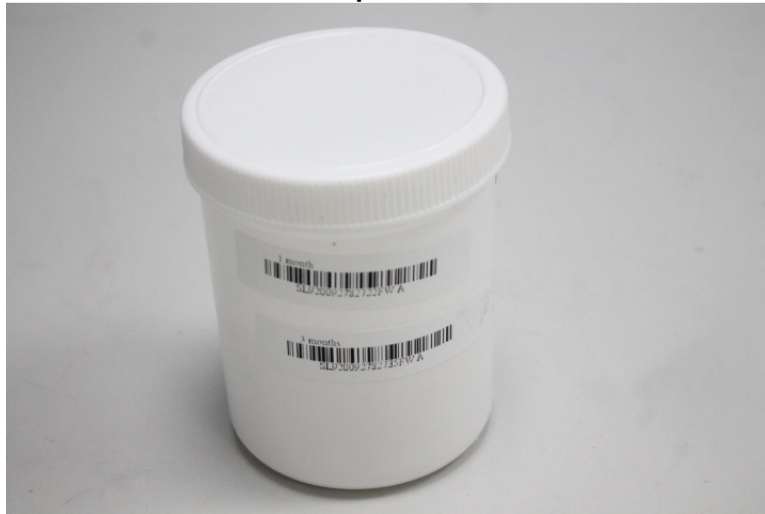


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Sample Photo



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COMPONENT LIST / List of Materials

Sample No.	Component No.	Description	Material	Color	Remark
A	1	Dried glue	Other Materials	Transparent	



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Test Result

Total Arsenic Content

Test Method: Textile: With reference to DIN EN 16711-1:2016. Analysis was conducted by ICP-OES or ICP-MS.

	CAS-No.	Result
		1
Arsenic (As)	7440-38-2	n.d.
Conclusion	--	PASS

Note: n.d.= Not detected
mg/kg = ppm
* = Exceeds the limit
= result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement.
Δ = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component has been carried out as requested to determine the compliance of each component to the requirement
Reporting limit = 10 mg/kg

Requirement 100 mg/kg

Total Cadmium Content

Test Method: Textile: With reference to DIN EN 16711-1:2016. Analysis was conducted by ICP-OES or ICP-MS.

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

Note: n.d.= Not detected
mg/kg = ppm
* = Exceeds the limit
= result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement.
Δ = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component has been carried out as requested to determine the compliance of each component to the requirement
Reporting limit = 5 mg/kg

Requirement 40 mg/kg



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Total Mercury Content

Test Method: Textile: With reference to DIN EN 16711-1:2016. Analysis was conducted by ICP-MS.

	CAS-No.	Result
		1
Mercury (Hg)	7439-97-6	n.d.
Conclusion	--	PASS

Note: n.d.= Not detected
mg/kg = ppm
* = Exceeds the limit
= result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement.
Δ = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component has been carried out as requested to determine the compliance of each component to the requirement
Reporting limit = 0.1 mg/kg

Requirement 0.5 mg/kg

Total Tin Content

Test Method: Textile: With reference to DIN EN 16711-1:2016. Analysis was conducted by ICP-MS.

	CAS-No.	Result
		1
Tin (Sn)	7440-31-5	5.0
Conclusion	--	INFO ONLY

Note: n.d.= Not detected
mg/kg = ppm
If Tin >0.1 mg/kg, organotin analysis is required
Reporting limit = 0.1 mg/kg

Requirement Not Applicable



Total Lead Content

Test Method: Non-Metal: With reference to CPSC-CH-E1002-08.3. Analysis was conducted by ICP-OES or ICP-MS.

	CAS-No.	Result
		1
Lead (Pb)	7439-92-1	n.d.
Conclusion	--	PASS

Note: n.d.= Not detected
mg/kg = ppm
* = Exceeds the limit
= result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement.
Δ = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component has been carried out as requested to determine the compliance of each component to the requirement
Reporting limit = 10 mg/kg

Requirement 90 mg/kg

Polyvinylchloride (PVC)

Test Method: Analysis was performed by Beilstein Test

	CAS-No.	Result
		1
PVC Flame Test	--	Negative
Conclusion	--	PASS

Note: Reporting limit = 10% (FTIR)
* = Exceed the limit

Requirement Negative



Alkylphenols (APs) – Polymers and all other materials

Test Method: With reference to AFIRM RSL 2020 method by solvent extraction. Analysis was conducted by HPLC-MS

	CAS-No.	Result
		1
Nonylphenol (NP)	--	n.d.
Octylphenol (OP)	--	n.d.
Sum of NP & OP	--	n.d.
Conclusion	--	PASS

Note: n.d. = Not Detected
 mg/kg = ppm
 * = Exceed the limit
 # = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement.
 Δ = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component has been carried out as requested to determine the compliance of each component to the requirement
 Reporting limit = 10 mg/kg (for individual substance)

Requirement:
Sum of NP & OP **100 mg/kg**



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Alkylphenol Ethoxylates (APEO) – All Materials Except Leather

Test Method: With reference to EN ISO 18254-1:2016. Analysis was conducted by HPLC-MS.

	CAS-No.	Result
		1
Nonylphenol Ethoxylate (NPEO)	--	n.d.
Octylphenol Ethoxylate (OPEO)	--	n.d.
Sum of NPEO & OPEO	--	n.d.
Conclusion	--	PASS

Note: n.d. = Not Detected
 mg/kg = ppm
 * = Exceed the limit
 # = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement.
 Δ = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component has been carried out as requested to determine the compliance of each component to the requirement
 Reporting limit = 20 mg/kg (for individual substance)

Requirement:
Sum of NPEO & OPEO 100 mg/kg



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Organotins

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

	CAS-No.	Result
		1
Dibutyltin (DBT)	--	n.d.
Diocetyl tin (DOT)	--	n.d.
Monobutyltin (MBT)	--	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.
Conclusion	--	PASS

Note: n.d.= not detected
mg/kg = ppm
* = Exceed the limit
= result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement.
Δ = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component has been carried out as requested to determine the compliance of each component to the requirement
Reporting limit = 0.1 mg/kg (for individual substance)

Requirement

Substance	Infants / Toddlers / Children	Adults
DBT, DOT, MBT, TCyT, TMT, TOT, TPT	1.0 mg/kg (for individual substance)	20 mg/kg (for individual substance)
TBT, TPhT	0.5 mg/kg (for individual substance)	



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Volatile Organic Compounds

Test Method: In house method. Analysis was conducted by headspace GC-MS.

	CAS-No.	Result
		1
Benzene	71-43-2	n.d.
Carbon disulfide	75-15-0	n.d.
Carbon Tetrachloride	56-23-5	n.d.
Chloroform	67-66-3	n.d.
Cyclohexanone	108-94-1	n.d.
1,2-Dichloroethane	107-06-2	n.d.
1,1-Dichloroethylene	75-35-4	n.d.
Ethylbenzene	100-41-4	n.d.
Pentachloroethane	76-01-7	n.d.
1,1,1,2- Tetrachloroethane	630-20-6	n.d.
1,1,2,2- Tetrachloroethane	79-34-5	n.d.
Tetrachloroethylene (PER)	127-18-4	n.d.
Toluene	108-88-3	n.d.
1,1,1- Trichloroethane	71-55-6	n.d.
1,1,2- Trichloroethane	79-00-5	n.d.
Trichloroethylene	79-01-6	n.d.
m-Xylene	108-38-3	n.d.
o-Xylene	85-47-6	n.d.
p-Xylene	106-42-3	n.d.
Sum of VOCs (Except Benzene)	--	n.d.
Conclusion	--	PASS

Note: n.d. = not detected
 mg/kg = ppm
 * = Exceed the limit
 # = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement.
 Δ = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component has been carried out as requested to determine the compliance of each component to the requirement
 Reporting limit
 Benzene = 5 mg/kg
 Others = 20 mg/kg (for individual substance)

Requirement

Benzene

5 mg/kg

Sum of VOCs (Except benzene)

1000 mg/kg



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Formaldehyde

Test Method: With reference to EN ISO 14184-1:2011. Analysis was conducted by UV/VIS spectrophotometer.

	CAS-No.	Result
		1
Formaldehyde	50-00-0	n.d.
Conclusion	--	PASS

Note: n.d. = Not detected
 mg/kg = ppm
 * = Exceed the limit
 # = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement.
 Δ = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component has been carried out as requested to determine the compliance of each component to the requirement
 Reporting limit = 16 mg/kg

Requirement
Babies 16 mg/kg
Adults and Children 75 mg/kg

Monomer – Vinyl Chloride

Test Method: With reference to EN ISO 6401:2008. Analysis was conducted by headspace GC-MS.

	CAS-No.	Result
		1
Vinyl Chloride	75-01-4	n.d.
Conclusion	--	PASS

Note: n.d. = not detected
 mg/kg = ppm
 * = Exceed the limit
 # = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement.
 Δ = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component has been carried out as requested to determine the compliance of each component to the requirement
 Reporting limit: 1 mg/kg

Requirement 1 mg/kg



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Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4. Analysis was conducted by GC-MS.

	CAS-No.	Result
		1
Diisononyl Phthalate (DINP)	28553-12-0	n.d.
Di-n-octyl Phthalate (DNOP)	117-84-0	n.d.
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	n.d.
Diisodecyl Phthalate (DIDP)	26761-40-0	n.d.
Benzylbutyl Phthalate (BBP)	85-68-7	n.d.
Dibutyl Phthalate (DBP)	84-74-2	n.d.
Diisobutyl phthalate (DIBP)	84-69-5	n.d.
Di-n-Hexylphthalate (DnHP)	84-75-3	n.d.
Diethylphthalate (DEP)	84-66-2	n.d.
Dimethylphthalate (DMP)	131-11-3	n.d.
Di-n-pentylphthalate (DnPP)	131-18-0	n.d.
Dicyclohexyl phthalate (DCHP)	84-61-7	n.d.
Di-C6-8 branched alkylphthalate (DIHP)	71888-89-6	n.d.
Bis (2-methoxyethyl) phthalate (DMEP)	117-82-8	n.d.
Diisopentylphthalate (DiPP)	605-50-5	n.d.
Di-n-propyl phthalate (DPRP)	131-16-8	n.d.
Di-isooctyl phthalate (DIOP)	27554-26-3	n.d.
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear standard (DIHP)	68515-50-4	n.d.
Di-C7-11 branched alkylphthalate (DHNUP)	68515-42-4	n.d.
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)	84777-06-0	n.d.
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters; 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68648-93-1 / 68515-51-5	n.d.
n-Pentyl-isopentylphthalate (nPIPP)	776297-69-9	n.d.
Sum	--	n.d.
Conclusion	--	PASS



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Note: n.d. = not detected
 mg/kg = ppm
 * = Exceed the limit
 # = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement.
 Δ = result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component has been carried out as requested to determine the compliance of each component to the requirement
 Reporting limit = 50 mg/kg (for individual substance)

Requirement

Each

500 mg/kg

Sum

1000 mg/kg

The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

End of Report



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