

TEST REPORT NO: 1003032455

Mar 19, 2026

**Applicant :** HEXETATE TECHNOLOGY CO., LTD  
**Address :** Room 6101-D03, CITIC Plaza, No.233 Tianhe North Road Tianhe District, Guangzhou, China 510623

**Test Date :** Mar 13, 2026~Mar 19, 2026

**Received Date:** Mar 13, 2026

**Contact Person :** Anthony

**Overall Rating** PASS

**Sample Description:** HEXETATE 3.0-PMMA RESIN SHEET

For and on behalf of  
UL VS Shanghai Ltd. Shenzhen Branch



Cola Cai - Consumer Testing Manager I

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SZ-FAF-001 (2023-06-08)

**Sample Information:**

<b>Sample ID</b>	<b>Product</b>	<b>Applicant equivalent code /Color</b>
001	Dark brown plastic	

<b>Test Items</b>	<b>Conclusion</b>
Alkylphenol Ethoxylates (APEOs) / Nonylphenol Ethoxylates (NPEOs) / Octylphenol Ethoxylates (OPEOs)	PASS
Total Heavy Metal	PASS
PVC Identification by FTIR	PASS
Organotin compounds	PASS
Total Phthalates Content	PASS
<b>Remark:</b> 1. The results relate only to the samples tested. 2. "NC"=No Comment, "NA"=Not Applicable, " * " See the attached test results details.	

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**1. Nonylphenol Ethoxylates (NPEOs) / Octylphenol Ethoxylates (OPEOs) [In House Method]**

<u>Analyte</u>	<u>Client Requirement (mg/kg)</u>	<u>Sample (mg/kg)</u>
		001
NPEO	Max.100	ND
OPEO	Max.100	ND
<b>Rating</b>		PASS
Remark: - All concentrations expressed in milligrams per kilogram of tested parts - Reporting Limit: 10 mg/kg - Method for determination of analyte are determined by LCMSMS - "ND" means Not Detected, denotes less than reporting limit. - The test results only apply to the items tested.		

**2. Total Heavy Metals Content [In House Method]**

<u>Elements</u>	<u>Reporting Limit (mg/kg)</u>	<u>Client Requirement (mg/kg)</u>	<u>Sample(mg/kg)</u>
			001
Lead (Pb)	10	Max.90	ND
Cadmium (Cd)	5	Max.40	ND
Arsenic (As)	10	Max.100	ND
Mercury (Hg)	0.1	Max.0.5	ND
<b>Rating</b>			PASS
Remark: - All concentrations expressed in milligrams per kilogram of tested parts - "ND" means Not Detected, denotes less than reporting limit. - Method for determination of Lead (Pb), Cadmium(Cd), Arsenic (As) and Mercury(Hg) are determined by Inductively Coupled Plasma Spectroscopy. - The test results only apply to the items tested.			

**3. Material Identification by FTIR**

Test Method: By inspection on the FTIR Spectrum

<u>Sample</u>	<u>Result</u>	<u>Claimed</u>	<u>Rating</u>
001	NO PVC	NO PVC	PASS
Remark: - The test results only apply to the items tested.			

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4. Organotin Compounds [ISO 16179:2025]

Name of Analytes	Client Requirement (mg/kg)	Sample (mg/kg)
Dibutyltin (DBT)	.	001
Dioctyltin (DOT)	Max. 1.0	ND
Monobutyltin (MBT)	Max. 1.0	ND
Tricyclohexyltin (TCyHT)	Max. 1.0	ND
Trimethyltin (TMT)	Max. 1.0	ND
Trioctyltin (TOT)	Max. 1.0	ND
Tripropyltin (TPT)	Max. 1.0	ND
Tributyltin (TBT)	Max. 1.0	ND
Triphenyltin (TPhT)	Max. 1.0	ND
<b>Rating</b>		PASS
Remark: - All concentrations expressed in milligrams per kilogram of tested parts - Reporting Limit: 0.1 mg/kg - The result expressed as SUM is calculated based on the "lower-bound criterion therefore the results below the limit of quantification are not included in the sum calculation. - "ND" means Not Detected, denotes less than reporting limit. - The test results only apply to the items tested.		

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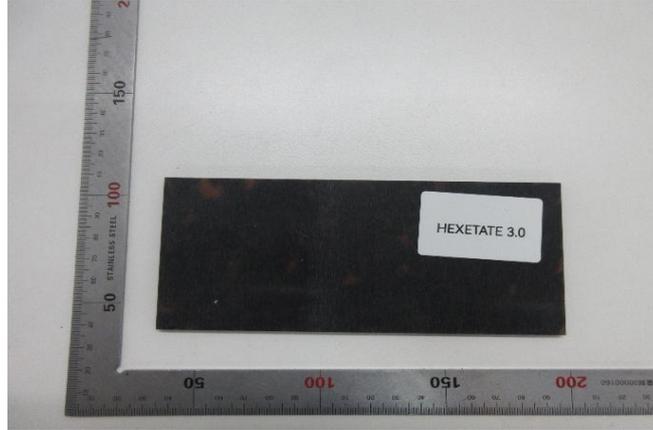
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**5. Total Phthalates Content [DIN EN ISO 14389:2023]**

<u>Name of Analytes</u>	<u>CAS No.</u>	<u>Limit (Max.)</u>	<u>Sample(%)</u>	
			001	
Butyl benzyl phthalate (BBP)	85-68-7	Each 0.05%	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7		ND	
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8		ND	
Dibutyl phthalate (DBP)	84-74-2		ND	
Di-C7-11-branched alkylphthalate (DHNUP)	68515-42-4		ND	
Di-cyclohexyl phthalate (DCHP)	84-61-7		ND	
Diethyl phthalate (DEP)	84-66-2		ND	
1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	68515-50-4		ND	
Di-iso-butyl phthalate (DIBP)	84-69-5		ND	
Di-iso-decyl phthalate (DIDP)	26761-40-0		ND	
Diisooheptyl phthalate (DIHP)	71888-89-6		ND	
Di-iso-nonyl phthalate (DINP)	28553-12-0		ND	
Di-iso-octyl phthalate(DIOP)	27554-26-3		ND	
Diisopentylphthalate (DIPP)	605-50-5		ND	
Dimethyl phthalate (DMP)	131-11-3		ND	
Di-n-hexyl phthalate (DNHP)	84-75-3		ND	
Di-n-octyl phthalate (DNOP)	117-84-0		ND	
Di-n-pentyl phthalate (DNPP)	131-18-0		ND	
Di-n-propyl phthalate (DPRP)	131-16-8		ND	
Bis(2-methoxyethyl) phthalate(DMEP)	117-82-8		ND	
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear(DniPP)	84777-06-0		ND	
Di-C7-11-branched alkylphthalate (DHNUP)	68515-42-4		ND	
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6		ND	
Sum of all			0.1%	ND
<b>Rating</b>			<b>PASS</b>	
Remark: - All concentrations expressed in percentage (%) - Reporting Limit: 0.005% - "ND" means Not Detected, denotes less than reporting limit. - Method for determination of Phthalates are determined by Gas Chromatography Mass Selective Detector (GC-MSD) - The test results only apply to the items tested.				

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**Sample Photo(s):**

\*\*\*\* End of Report \*\*\*\*

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SZ-FAF-001 (2023-06-08)

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21. **No Assignment.** Neither party may assign any of its rights or obligations under the Terms to any other person without the other party's written authorization. However, UL Solutions may, upon written notice, assign its rights and obligations under the Terms to any of its affiliates or subsidiaries.
22. **Subcontracting and Personnel.** UL Solutions will be responsible for assigning and re-assigning its personnel, as appropriate, to perform the Services. For the duration of the engagement and for a period of twelve (12) months after the Services are completed, Client will not actively solicit the employment of UL Solutions personnel involved directly with providing the Services under the Quote. Client agrees that UL Solutions may subcontract the Services to third parties. Client authorizes UL Solutions to disclose all information to the subcontractor, including Confidential Information, necessary for such performance of the Services by the subcontractor. UL Solutions will provide as a term of any such subcontract that the subcontractor shall meet UL Solutions current qualification requirements and will comply with its requirements for confidentiality, conflicts of interest, and ethical standards.
23. **Termination and Notice.** The Quote will continue in effect until the Services are completed or until the Quote is terminated by either party upon thirty days written notice or, in the event of Client's breach of the Terms or the Quote, immediately upon receipt of written notice to Client. Client will pay those fees and expenses incurred by UL Solutions prior to termination. Notices must be in writing and may be delivered by mail or email. Notices to UL Solutions must include a copy by email to [legal\\_notices@ul.com](mailto:legal_notices@ul.com).
24. **Choice of Law and Dispute Resolution.** All disputes, claims, controversies, questions, or differences related to or arising out of the Services, the Quote, or the Terms will be finally settled by confidential arbitration (except for the limited court remedies provided below). The arbitration will be conducted in English before a single arbitrator agreed to by both parties (or if the parties cannot so agree, an arbitrator appointed by the applicable administrator), in accordance with the then-current rules and procedures of the applicable administrator. The administrator, location, and governing law applicable to the construction and interpretation of the Terms and the Quote will be as follows:
  - a) If UL Solutions principal place of business is in the United States of America, the arbitration will be administered in Chicago, Illinois by the American Arbitration Association, and the arbitrator will apply the laws of the State of Illinois.
  - b) If UL Solutions principal place of business is in Canada, the arbitration will be administered in Toronto by the International Centre for Dispute Resolution Canada, and the arbitrator will apply the laws of Ontario.
  - c) If UL Solutions principal place of business is in Latin America, the arbitration will be administered in Miami, Florida, USA by the International Centre for Dispute Resolution, and the arbitrator will apply the laws of the State of Florida.
  - d) If UL Solutions principal place of business is in Europe, Africa, or the Middle East, the arbitration will be administered in Zurich, Switzerland by the International Chamber of Commerce, and the arbitrator will apply the laws of Switzerland.
  - e) If UL Solutions and Client's principal places of business are in China, the arbitration will be administered in Beijing by the China International Economic and Trade Arbitration Commission, and the arbitrator will apply the laws of China. If UL Solutions principal place of business is in China but Client's principal place of business is outside China, the next clause will apply.
  - f) If UL Solutions principal place of business is in Asia (except as set forth in the preceding clause), Australia, or New Zealand, the arbitration will be administered in Singapore by the Singapore International Arbitration Centre, and the arbitrator will apply the laws of the Republic of Singapore. The arbitrator does not have authority to modify the Terms and must apply the above choice of law without regard to conflicts of law principles. The arbitrator's decision will be the binding and final remedy for any dispute between the parties arising out of the Terms. However, a party may seek from a court of competent jurisdiction judgement on an arbitration award, provisional remedies in aid of arbitration, or injunctive relief to stop a breach or threatened breach of the Terms.
 The arbitrator does not have authority to modify the Terms and must apply the above choice of law without regard to conflicts of law principles. The arbitrator's decision will be the binding and final remedy for any dispute between the parties arising out of the Terms. However, a party may seek from a court of competent jurisdiction judgement on an arbitration award, provisional remedies in aid of arbitration, or injunctive relief to stop a breach or threatened breach of the Terms.
25. **Severability.** If any section of the Terms is held invalid, void, or unenforceable for any reason that section will be severed, and all other sections of the Terms will remain valid to the extent permissible under law.
26. **Modifications.** The Terms and Quote are the entire and complete agreement between the parties and supersede any other communications, representations, agreements with respect to its subject matter. Under no circumstances will any preprinted, additional, or different terms and conditions on Client's requests for quotation, purchase orders, invoices, sales or marketing materials, emails, any acceptance communications, or other business documents apply to the Services or the Terms or bind UL Solutions in any manner. Modifications that have not been made by UL Solutions or that have not been accepted by UL Solutions in a written or emailed confirmation from UL Solutions are not accepted by UL Solutions, and commencement of performance will not signify acceptance by UL Solutions of any such modifications. Any such modifications are excluded from the agreement, and such modifications will not be a binding agreement on UL Solutions.
27. **Order of Precedence.** Except for conflicts related to payment terms, estimated schedule, or price for the Services, the Terms will take precedence over any conflicting terms in any Quote.
28. **Electronic Signature.** The Terms may be executed and delivered by facsimile, PDF, or by means of other electronic signature. UL Solutions' electronic, digital, or hard copies of the Terms, Client's acceptance, and Quotes as signed, or otherwise accepted, by Client will be the true, complete, valid, authentic, and enforceable copies of these documents. Client agrees that it will not contest the admissibility or enforceability of UL Solutions copies in a court or any proceeding arising out of such documents.
29. **Force Majeure.** Neither party will be liable for any failure or delay in the performance of its obligations due to fire, flood, earthquake, governmental actions, epidemic disease, elements of nature, or acts of God, acts of war, terrorism, riots, civil disorder, rebellions, or other similar cause beyond the reasonable control of the party affected, provided such default or delay:
  - a) Could not have been prevented by reasonable precautions.
  - b) Cannot reasonably be circumvented.
  - c) The party hindered or delayed immediately notifies the other party describing the circumstance causing delay.
30. **Decision Rule:** The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025 and accreditation body requirements. Unless otherwise is specified, all Pass/Fail results are given without uncertainty considered. When uncertainty is taken into account, the result may be borderline. Borderline results need to be retested to determine their disposition up to customer's decision.