

## Test Report

No.: CANEC23001125021

Date: Mar 30, 2023

Page 1 of 8

Client Name: HOKUETSU TOYO FIBRE CO.,LTD.

Client Address: 888 OHTSUKA,NUMAZU,SHIZUOKA 410-0306,JAPAN

Sample Name: VULCANIZED FIBRE NF-77(R) BN

The above sample(s) and information were provided by the client.

SGS Job No.: CP23-013101

Sample Receiving Date: Mar 22, 2023

Testing Period: Mar 22, 2023 ~ Mar 29, 2023

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

| Test Requirement   | Conclusion |
|--|------------|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass       |

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

Allie Chen

Allie Chen  
Approved Signatory

scan to see the report



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SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Standards Technical Services Co., Ltd. Guangzhou Laboratory

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**Test Result(s):**

Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description |
|-------|------------|-------------------------|-------------|
| SN1   | A15        | CAN23-0011250-0001.C015 | Red sheet   |

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s)                       | Limit | Unit(s) | MDL | A15 |
|------------------------------------|-------|---------|-----|-----|
| Cadmium(Cd)                        | 100   | mg/kg   | 2   | ND  |
| Lead (Pb)                          | 1000  | mg/kg   | 2   | ND  |
| Mercury (Hg)                       | 1000  | mg/kg   | 2   | ND  |
| Hexavalent Chromium (Cr(VI))       | 1000  | mg/kg   | 8   | ND  |
| Polybromobiphenyl (PBBs)           | 1000  | mg/kg   | -   | ND  |
| Monobromobiphenyl (MonoBB)         | -     | mg/kg   | 5   | ND  |
| Dibromobiphenyl (DiBB)             | -     | mg/kg   | 5   | ND  |
| Tribromobiphenyl (TriBB)           | -     | mg/kg   | 5   | ND  |
| Tetrabromobiphenyl (TetraBB)       | -     | mg/kg   | 5   | ND  |
| Pentabromobiphenyl (PentaBB)       | -     | mg/kg   | 5   | ND  |
| Hexabromobiphenyl (HexaBB)         | -     | mg/kg   | 5   | ND  |
| Heptabromobiphenyl (HeptaBB)       | -     | mg/kg   | 5   | ND  |
| Octabromobiphenyl (OctaBB)         | -     | mg/kg   | 5   | ND  |
| Nonabromobiphenyl (NonaBB)         | -     | mg/kg   | 5   | ND  |
| Decabromobiphenyl (DecaBB)         | -     | mg/kg   | 5   | ND  |
| Polybromodiphenyl ether(PBDEs)     | 1000  | mg/kg   | -   | ND  |
| Monobromodiphenylether (MonoBDE)   | -     | mg/kg   | 5   | ND  |
| Dibromodiphenylether (DiBDE)       | -     | mg/kg   | 5   | ND  |
| Tribromodiphenylether (TriBDE)     | -     | mg/kg   | 5   | ND  |
| Tetrabromodiphenylether (TetraBDE) | -     | mg/kg   | 5   | ND  |
| Pentabromodiphenylether (PentaBDE) | -     | mg/kg   | 5   | ND  |
| Hexabromodiphenylether (HexaBDE)   | -     | mg/kg   | 5   | ND  |
| Heptabromodiphenylether (HeptaBDE) | -     | mg/kg   | 5   | ND  |
| Octabromodiphenylether (OctaBDE)   | -     | mg/kg   | 5   | ND  |
| Nonabromodiphenylether (NonaBDE)   | -     | mg/kg   | 5   | ND  |
| Decabromodiphenylether (DecaBDE)   | -     | mg/kg   | 5   | ND  |
| Dibutyl Phthalate(DBP)             | 1000  | mg/kg   | 50  | ND  |
| Benzyl Butyl Phthalate(BBP)        | 1000  | mg/kg   | 50  | ND  |



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# Test Report

No.: CANEC23001125021

Date: Mar 30, 2023

Page 3 of 8

| Test Item(s)                       | Limit | Unit(s) | MDL | A15 |
|------------------------------------|-------|---------|-----|-----|
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 1000  | mg/kg   | 50  | ND  |
| Diisobutyl Phthalate(DIBP)         | 1000  | mg/kg   | 50  | ND  |

**Notes:**

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.



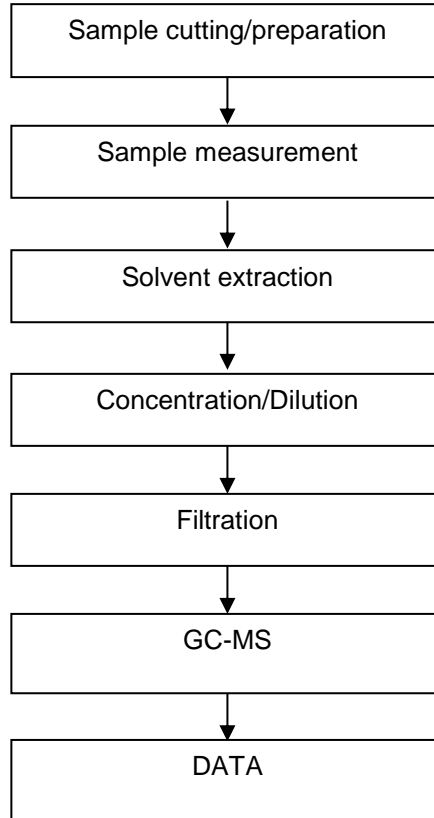
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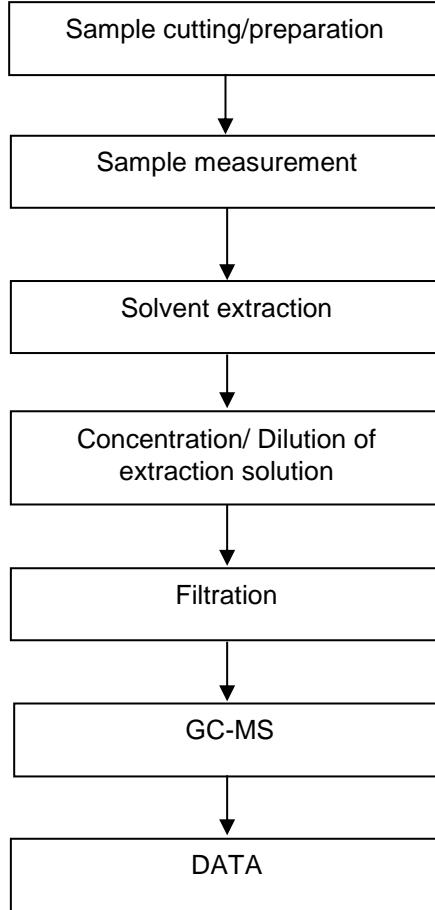
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### Phthalates Testing Flow Chart



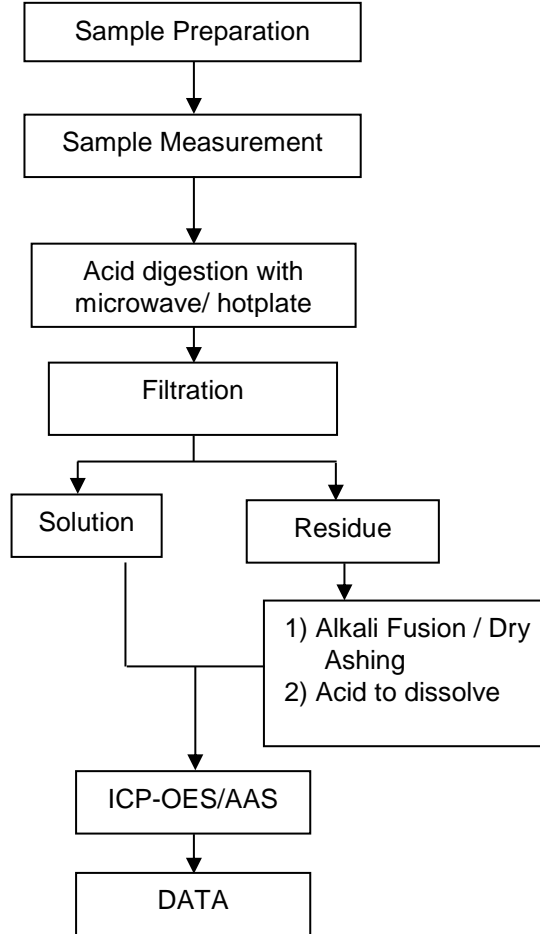
**PBBs/PBDEs Testing Flow Chart**





**Elements Testing Flow Chart**

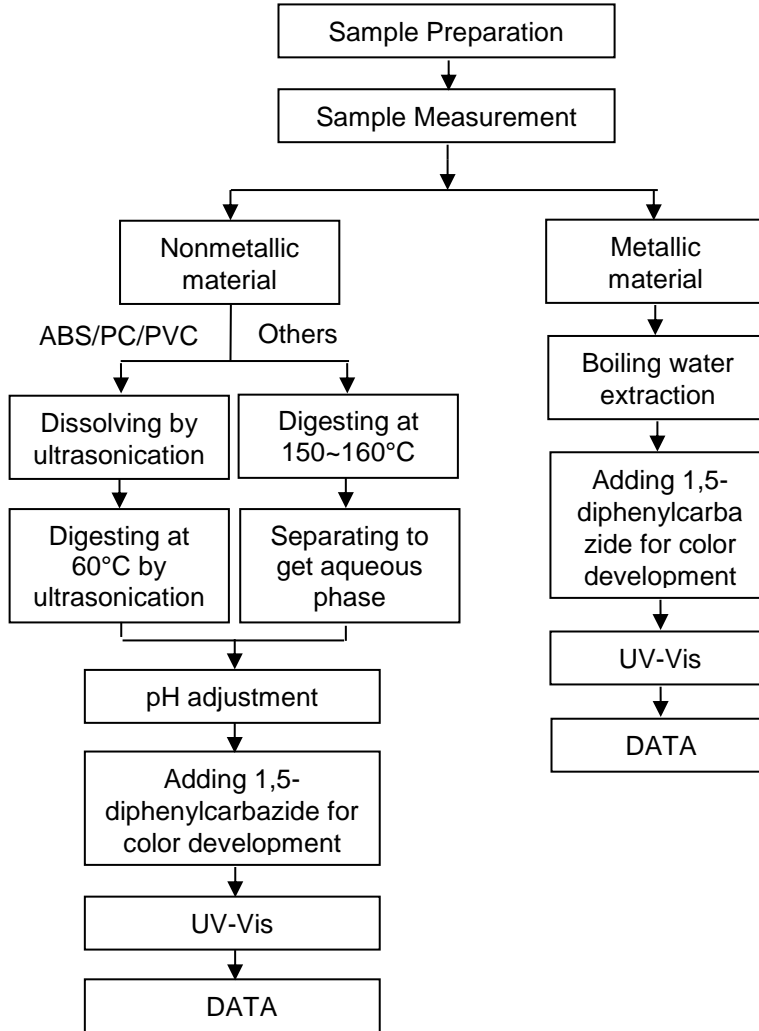
These samples were dissolved totally by pre-conditioning method according to below flow chart.



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ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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No.: CANEC23001125021

Date: Mar 30, 2023

Page 8 of 8

Sample Photo:



SGS authenticate the photo on original report only  
\*\*\* End of Report \*\*\*



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