

Test Report No.: 70.431.22.10379.01
Dated: 2022-01-29



Applicant: POLYCONCEPT GBS
Address: 4/F., HONGQIAO RONGGUANG BLDG., 11 CHANGSHUN ROAD SHANGHAI,
200051, PR CHINA
Product Name: Priestly notebook & BP
Model No.: 10626800 – red / 10626801 – black
10626802 – blue
PO/Order No.: PO#651932
Manufacturer: #10702
Factory Code: #10686
Country of Origin: China
Country of Destination: EU
Receipt Date of Sample: 2022-01-18
Date of Testing: 2022-01-18 to 2022-01-29
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

| Test Item | Conclusion |
|--|------------|
| 1. Polycyclic Aromatic Hydrocarbons (PAHs) Content in Annex XVII item 50 of the REACH Regulation (EC) No 1907/2006 with its Amendments | Pass |
| 2. Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation(EC) No 1907/2006 with its Amendments | Pass |
| 3. Azocolourants Content Requirement in Annex XVII, Item 43 of the REACH Regulation(EC) No 1907/2006 with its Amendment | Pass |
| 4. Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments | Pass |
| 5. Phthalates Content in Annex XVII Items 51 and 52 of the REACH Regulation(EC) No 1907/2006 with its Amendments | Pass |
| 6. Phthalates Content – in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) | Pass |
| 7. Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) Content – European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs) | Pass |
| 8. Tris(2-chloroethyl) phosphate (TCEP) Content – in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) | Pass |

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%

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TÜV SÜD Certification and Testing (China) Co.,Ltd. Shanghai Branch
Testing Center

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Note:

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- (2) The results relate only to the Items tested.
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- (4) **Disclaimer Measurement Uncertainty:**
Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.
Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

Description of the Tested Subject

| Sample | Description | Photo |
|--------|---|--|
| 001 | Priestly notebook & BP 10626800 – red 10626800 – black 10626802 – blue |  |

| T. No | Sample | Description |
|-------|--------|--|
| T1 | 002 | Black elastic band |
| T2 | 003 | Red elastic band |
| T3 | 004 | Blue elastic band |
| T4 | 005 | Black plastic nib/cap |
| T5 | 006 | Blue plastic nib/cap |
| T6 | 007 | Red plastic nib/cap |
| T7 | 008 | Translucent white plastic lower tooth column |
| T8 | 009 | Grey plastic upper tooth column |
| T9 | 010 | White plastic refill |
| T10 | 011 | Silvery metal spring |
| T11 | 012 | Silvery metal axis with black coating |
| T12 | 013 | Black plastic (end of stopper) |
| T13 | 014 | Blue plastic (end of stopper) |
| T14 | 015 | Red plastic (end of stopper) |
| T15 | 016 | Paper board (barrel) |
| T16 | 017 | Beige paper with black printed (inner page) |

Test Results

1. Polycyclic Aromatic Hydrocarbons (PAHs) Content in Annex XVII item 50 of the REACH Regulation (EC) No 1907/2006 with its Amendments

Test with reference to AfPS GS 2019:01, determination by GC-MS.

| Parameter | CAS No. | Unit | MDL | Limit | Result(s) |
|--------------------------------|----------|-------|-----|-------|-------------|
| | | | | | 002+003+004 |
| Benzo[b]fluoranthene (BbFA) | 205-99-2 | mg/kg | 0.1 | <1 | ND |
| Benzo[a]anthracene (BaA) | 56-55-3 | mg/kg | 0.1 | <1 | ND |
| Benzo[a]pyrene (BaP) | 50-32-8 | mg/kg | 0.1 | <1 | ND |
| Benzo[e]pyrene (BeP) | 192-97-2 | mg/kg | 0.1 | <1 | ND |
| Benzo[j]fluoranthene (BjFA) | 205-82-3 | mg/kg | 0.1 | <1 | ND |
| Benzo[k]fluoranthene (BkFA) | 207-08-9 | mg/kg | 0.1 | <1 | ND |
| Chrysene (CHR) | 218-01-9 | mg/kg | 0.1 | <1 | ND |
| Dibenzo[a,h]anthracene (DBAhA) | 53-70-3 | mg/kg | 0.1 | <1 | ND |
| Conclusion | | | | | Pass |

2. Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation(EC) No 1907/2006 with its Amendments

Test with reference to Acid digestion and EN 1122:2001 Method B, determination by ICP-OES/ICP-MS.

| Sample | Unit | MDL | Limit | Result(s) | Conclusion |
|-------------|-------|-----|-------|-----------|------------|
| 002+003+004 | mg/kg | 5 | <100 | <5.0 | Pass |
| 005+006+007 | mg/kg | 5 | <100 | <5.0 | Pass |
| 008+009+010 | mg/kg | 5 | <100 | <5.0 | Pass |
| 012 | mg/kg | 10 | <100 | <10.0 | Pass |
| 013+014+015 | mg/kg | 5 | <100 | <5.0 | Pass |
| 016 | mg/kg | 5 | <100 | <5.0 | Pass |
| 017 | mg/kg | 5 | <100 | <5.0 | Pass |

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3. Azocolourants Content Requirement in Annex XVII, Item 43 of the REACH Regulation(EC) No 1907/2006 with its Amendment

Test with reference to EN ISO 14362-1:2017 and EN ISO14362-3:2017, determination by GC-MS/HPLC.

| No. | Prohibited Amines | CAS No. | MDL [mg/kg] | Limit [mg/kg] | Result(s) [mg/kg] |
|-------------------|---------------------------------------|----------|-------------|---------------|-------------------|
| | | | | | 002+003+004 |
| 1 | 4-aminobiphenyl | 92-67-1 | 5.0 | <30 | <5.0 |
| 2 | Benzidine | 92-87-5 | 5.0 | <30 | <5.0 |
| 3 | 4-chloro-o-toluidine | 95-69-2 | 5.0 | <30 | <5.0 |
| 4 | 2-naphthylamine | 91-59-8 | 5.0 | <30 | <5.0 |
| 5 | o-aminoazotoluene | 97-56-3 | 5.0 | <30 | <5.0 |
| 6 | 5-nitro-o-toluidine | 99-55-8 | 5.0 | <30 | <5.0 |
| 7 | 4-chloroaniline | 106-47-8 | 5.0 | <30 | <5.0 |
| 8 | 2,4-diaminoanisole | 615-05-4 | 5.0 | <30 | <5.0 |
| 9 | 4,4'-diaminodiphenylmethane | 101-77-9 | 5.0 | <30 | <5.0 |
| 10 | 3,3'-dichlorobenzidine | 91-94-1 | 5.0 | <30 | <5.0 |
| 11 | 3,3'-Dimethoxybenzidine | 119-90-4 | 5.0 | <30 | <5.0 |
| 12 | 3,3'-dimethylbenzidine | 119-93-7 | 5.0 | <30 | <5.0 |
| 13 | 4,4'-methylenedi-o-toluidine | 838-88-0 | 5.0 | <30 | <5.0 |
| 14 | p-cresidine | 120-71-8 | 5.0 | <30 | <5.0 |
| 15 | 4,4'-methylene-bis-(2-chloro-aniline) | 101-14-4 | 5.0 | <30 | <5.0 |
| 16 | 4,4'-oxydianiline | 101-80-4 | 5.0 | <30 | <5.0 |
| 17 | 4,4'-thiodianiline | 139-65-1 | 5.0 | <30 | <5.0 |
| 18 | o-toluidine | 95-53-4 | 5.0 | <30 | <5.0 |
| 19 | 2,4-toluenediamine | 95-80-7 | 5.0 | <30 | <5.0 |
| 20 | 2,4,5-trimethylaniline | 137-17-7 | 5.0 | <30 | <5.0 |
| 21 | 2-methoxyaniline | 90-04-0 | 5.0 | <30 | <5.0 |
| 22 | 2,4-xylidine | 95-68-1 | 5.0 | <30 | <5.0 |
| 23 | 2,6-xylidine | 87-62-7 | 5.0 | <30 | <5.0 |
| 24 | 4-aminoazobenzene | 60-09-3 | 5.0 | <30 | <5.0* |
| Conclusion | | | | | Pass |

Interpretation of test results:

- (1) In the case of the measured value per amine component ≤ 30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) Banned AZO dyes in accordance to REACH regulation (EC) No. 1907/2006 and Amendment No. 552/2009 Annex XVII Item 43 (formerly known as 2002/61/EC)

Remark: * Indicate the content of 4-Aminoazobenzene was confirmed with reference to EN ISO14362-3:2017 by GC-MS.



4. Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments

Test with reference to in house method, determination by ICP-OES/ICP-MS.

| Sample | Unit | MDL | Limit | Result(s) | Conclusion |
|-------------|-------|------|-------|-----------|------------|
| 002+003+004 | mg/kg | 10.0 | 500 | <10.0 | Pass |
| 005+006+007 | mg/kg | 10.0 | 500 | <10.0 | Pass |
| 008+009+010 | mg/kg | 10.0 | 500 | <10.0 | Pass |
| 011+012 | mg/kg | 10.0 | 500 | <10.0 | Pass |
| 013+014+015 | mg/kg | 10.0 | 500 | <10.0 | Pass |
| 016 | mg/kg | 10.0 | 500 | 59.0 | Pass |
| 017 | mg/kg | 10.0 | 500 | <10.0 | Pass |

5. Phthalates Content in Annex XVII Items 51 and 52 of the REACH Regulation(EC) No 1907/2006 with its Amendments

Test with reference to in house method, determination by GC-MS.

| Parameter | CAS No. | Unit | MDL | Limit | Result(s) |
|------------------------------------|----------------------------|------|-------|----------------|-------------|
| | | | | | 002+003+004 |
| Bis (2-ethylhexyl) phthalate, DEHP | 117-81-7 | % | 0.005 | - | ND |
| Dibutyl phthalate, DBP | 84-74-2 | % | 0.005 | - | ND |
| Benzyl butyl phthalate, BBP | 85-68-7 | % | 0.005 | - | ND |
| Diisobutylphthalate, DIBP | 84-69-5 | % | 0.005 | - | ND |
| Sum of DBP, BBP, DEHP, DIBP | - | % | 0.005 | <0.1 | ND |
| Di-isononyl phthalate, DINP | 28553-12-0 , 68515-48-0 | % | 0.005 | - | ND |
| Di-isodecyl phthalate, DIDP | 26761-40-0 , 68515-49-1 | % | 0.005 | - | ND |
| Di-n-octyl phthalate, DNOP | 117-84-0 | % | 0.005 | - | ND |
| Sum of DINP, DIDP, DNOP | - | % | 0.005 | <0.1 | ND |
| Conclusion | | | | | Pass |

6. Phthalates Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)

Test with reference to in house method and determination by GC-MS.

| Compound | CAS No. | Unit | MDL | Limit | Result(s) [%] |
|---|---------------------------|------|------|-------|---------------|
| | | | | | 002+003+004 |
| Benzylbutylphthalate (BBP) | 85-68-7 | % | 0.01 | <0.1 | <0.01 |
| Bis (2-ethylhexyl) phthalate (DEHP) | 117-81-7 | % | 0.01 | <0.1 | <0.01 |
| Dibutylphthalate (DBP) | 84-74-2 | % | 0.01 | <0.1 | <0.01 |
| Diisobutyl Phthalate (DIBP) | 84-69-5 | % | 0.01 | <0.1 | <0.01 |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4 | % | 0.01 | <0.1 | <0.01 |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) | 71888-89-6 | % | 0.01 | <0.1 | <0.01 |
| Bis(2-methoxyethyl) phthalate (DMEP) | 117-82-8 | % | 0.01 | <0.1 | <0.01 |
| 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 84777-06-0 | % | 0.01 | <0.1 | <0.01 |
| Diisopentylphthalate (DIPP) | 605-50-5 | % | 0.01 | <0.1 | <0.01 |
| N-pentyl-isopentylphthalate | 776297-69-9 | % | 0.01 | <0.1 | <0.01 |
| Dipentyl phthalate (DPP) | 131-18-0 | % | 0.01 | <0.1 | <0.01 |
| Di-n-hexyl phthalate (DnHP/DHP/DHEXP) | 84-75-3 | % | 0.01 | <0.1 | <0.01 |
| 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 68515-50-4 | % | 0.01 | <0.1 | <0.01 |
| 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with \geq 0.3% of dihexyl phthalate | 68515-51-5, 68648-93-1 | % | 0.01 | <0.1 | <0.01 |
| Dicyclohexyl phthalate(DCHP) | 84-61-7 | % | 0.01 | <0.1 | <0.01 |
| Diisohexyl phthalate (DIHxP) | 71850-09-4 | % | 0.01 | <0.1 | <0.01 |
| Conclusion | | | | | Pass |

7. **Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) Content - European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs)**
 Test with reference to in house method, determination by GC-MS-NCl.

| Parameter | CAS No. | Unit | MDL | Limit | Result(s) |
|-------------------|------------|-------|-----|-------|-------------|
| | | | | | 002+003+004 |
| SCCP | 85535-84-8 | mg/kg | 100 | <1500 | <100 |
| Conclusion | | | | | Pass |

8. **Tris(2-chloroethyl) phosphate (TCEP) Content - in Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)**
 Test with reference to in house method and determination by LC-MS.

| Compound | CAS No. | Unit | MDL | Limit | Result(s) [%] |
|--------------------------------|----------|------|------|-------|---------------|
| | | | | | 002+003+004 |
| Tris (2-chloroethyl) phosphate | 115-96-8 | % | 0.01 | <0.1 | <0.01 |
| Conclusion | | | | | Pass |

- End of Test Report -