

**TEST REPORT**

NUMBER : BGLA18006395

DATE : 27-OCT-2018

**APPLICANT:** **RAND POLYPRODUCTS PVT. LTD/PUNE**  
3A/2. Old Gate No. 1649, Village Ghoawade,  
Pune, Maharashtra, 412108, India

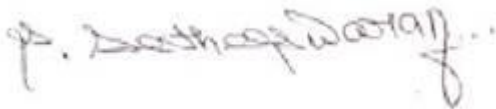
**ATTN:** **Mr. Nayak U.v,Rajiv Dongre,Rajiv Dongre**

SAMPLE DESCRIPTION: ONE PIECE OF ENFIL HF RESIN SAMPLE SUBMITTED.

|                            |                            |
|----------------------------|----------------------------|
| COLOUR                     | TESTED COMPONENT:-         |
| BASE MATERIAL/RAW MATERIAL | [1] ENFIL HF RESIN [BLACK] |
| MANUFACTURER'S NAME        | : BLACK- IDENTIFY BY LAB   |
| RAW MATERIAL SUPPLIER      | : ENFIL HF RESIN           |
| ARTICLE NO. /PART NO.      | : --                       |
| PART NO                    | : ENFIL HF RESIN           |
| SUPPLIER NAME              | : --                       |
| SAMPLE RECEIVED            | : NOT PROVIDED             |
|                            | : NOT PROVIDED             |
|                            | : 22-OCT-2018              |

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TESTS CONDUCTED: AS REQUESTED BY THE APPLICANT. FOR DETAILS REFER TO ATTACHED PAGE (S).  
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**AUTHORIZED BY:**  
For Intertek India Private Limited [Analytical – Bangalore]



**AATHEESWARAN S**  
Laboratory Manager - Analytical

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**Test Result Summary :**

| Test Item                    | Unit               | Test Method  | Result | RL   |
|------------------------------|--------------------|--|--------|------|
|                              |                    |  | [1]    |      |
| Cadmium (Cd) Content         | ppm                | With reference to IEC 62321-5: 2013, by microwave or acid digestion and determined by ICP-OES.   | ND     | 2    |
| Lead (Pb) Content            | ppm                | With reference to IEC 62321-5: 2013, by microwave or acid digestion and determined by ICP-OES.   | ND     | 2    |
| Mercury (Hg) Content         | ppm                | With reference to IEC 62321-4:2013+AMD1:2017, by microwave or acid digestion and determined by ICP-OES.  | ND     | 2    |
| Chromium VI (Cr6+) Content   | ppm                | With reference to IEC 62321-7-2: 2017, organic solvent was used to dissolve or swell sample matrix, followed by alkaline digestion and determined by UV-Vis Spectrophotometer. | ND     | 1    |
| Chromium VI (Cr6+) Content @ | µg/cm <sup>2</sup> | With reference to IEC 62321-7-1: 2015, by boiling water extraction and determined by UV-Vis Spectrophotometer or visual observation.   | --     | 0.10 |

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| Test Item                                     | Unit | Test Method  | Result | RL |
|---|------|--|--------|----|
|   |      |  | [1]    |    |
| <b>Polybrominated Biphenyls (PBBs)</b>        |      |  |        |    |
| Monobrominated Biphenyls (MonoBB)             | ppm  | With reference to IEC 62321-6: 2015, by solvent extraction and determined by GC-MS and further HPLC-DAD confirmation when necessary. | ND     | 5  |
| Dibrominated Biphenyls (DiBB)                 | ppm  |  | ND     | 5  |
| Tribrominated Biphenyls (TriBB)               | ppm  |  | ND     | 5  |
| Tetrabrominated Biphenyls (TetraBB)           | ppm  |  | ND     | 5  |
| Pentabrominated Biphenyls (PentaBB)           | ppm  |  | ND     | 5  |
| Hexabrominated Biphenyls (HexaBB)             | ppm  |  | ND     | 5  |
| Heptabrominated Biphenyls (HeptaBB)           | ppm  |  | ND     | 5  |
| Octabrominated Biphenyls (OctaBB)             | ppm  |  | ND     | 5  |
| Nonabrominated Biphenyls (NonaBB)             | ppm  |  | ND     | 5  |
| Decabrominated Biphenyl (DecaBB)              | ppm  |  | ND     | 5  |
| <b>Polybrominated Diphenyl Ethers (PBDEs)</b> |      |  |        |    |
| Monobrominated Diphenyl Ethers (MonoBDE)      | ppm  | With reference to IEC 62321-6: 2015, by solvent extraction and determined by GC-MS and further HPLC-DAD confirmation when necessary. | ND     | 5  |
| Dibrominated Diphenyl Ethers (DiBDE)          | ppm  |  | ND     | 5  |
| Tribrominated Diphenyl Ethers (TriBDE)        | ppm  |  | ND     | 5  |
| Tetrabrominated Diphenyl Ethers (TetraBDE)    | ppm  |  | ND     | 5  |
| Pentabrominated Diphenyl Ethers (PentaBDE)    | ppm  |  | ND     | 5  |
| Hexabrominated Diphenyl Ethers (HexaBDE)      | ppm  |  | ND     | 5  |
| Heptabrominated Diphenyl Ethers (HeptaBDE)    | ppm  |  | ND     | 5  |
| Octabrominated Diphenyl Ethers (OctaBDE)      | ppm  |  | ND     | 5  |
| Nonabrominated Diphenyl Ethers (NonaBDE)      | ppm  |  | ND     | 5  |
| Decabrominated Diphenyl Ether (DecaBDE)       | ppm  |  | ND     | 5  |

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| Test Item                         | Unit | Test Method  | Result | RL |
|-----------------------------------|------|--|--------|----|
|                                   |      |  | [1]    |    |
| Phthalates                        |      |  |        |    |
| Di(2-ethylhexyl) Phthalate (DEHP) | ppm  | With reference to IEC 62321-8:2017, by solvent extraction and determined by GC-MS. | ND     | 50 |
| Dibutyl Phthalate (DBP)           | ppm  |  | ND     | 50 |
| Benzyl Butyl Phthalate (BBP)      | ppm  |  | ND     | 50 |
| Diisobutyl Phthalate (DIBP)       | ppm  |  | ND     | 50 |

|          |     |   |  |
|----------|-----|---|--|
| Remarks: | ppm | = | Parts per million based on weight of tested sample = mg/kg |
|          | ND  | = | Not detected   |
|          | RL  | = | Reporting limit, quantitation limit of analyte in sample   |
|          | *   | = | Failed component   |

@ The explanation of Chromium VI (Cr6+) analysis results

| Colorimetric result                                     | Qualitative Result | Explanation  |
|---|--------------------|--|
| < 0.10 µg/cm <sup>2</sup>                               | Negative           | The result of sample is negative for Cr(VI). The sample coating is considered a non-Cr(VI) based coating.  |
| ≥ 0.10 µg/cm <sup>2</sup> and ≤ 0.13 µg/cm <sup>2</sup> | Inconclusive       | The result of sample is considered to be inconclusive. If addition samples are available, recommend to add trials and get the average result for the final determination.                                  |
| > 0.13 µg/cm <sup>2</sup>                               | Positive           | The result of sample is positive for Cr(VI). The sample coating is considered to contain Cr(VI). A result expresses as Positive, while not an actual value, which indicates a visual observation was used. |

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**RoHS Limit**

| <b>Restricted Substances</b>           | <b>Limits</b>  |
|--|--|
| Cadmium (Cd) content                   | 0.01% (100ppm)   |
| Lead (Pb) content                      | 1000 ppm (40000 ppm FOR BRASS/COPPER MATERIAL)<br>(3500 ppm FOR STEEL)<br>(4000 ppm FOR ALUMINIUM) |
| Mercury (Hg) content                   | 0.1% (1000ppm)   |
| Chromium VI (Cr6+) content             | 0.1% (1000ppm)   |
| Polybrominated Biphenyls (PBBs)        | 0.1% (1000ppm)   |
| Polybrominated Diphenyl Ethers (PBDEs) | 0.1% (1000ppm)   |
| Di(2-ethylhexyl) Phthalate (DEHP)      | 0.1% (1000ppm)   |
| Dibutyl Phthalate (DBP)                | 0.1% (1000ppm)   |
| Benzyl Butyl Phthalate (BBP)           | 0.1% (1000ppm)   |
| Diisobutyl Phthalate (DIBP)            | 0.1% (1000ppm)   |

The limits were quoted from Annex II of 2011/65/EU and Amendment (EU) 2015/863 for homogeneous material.

**ROHS CONCLUSION: Tested Component of Submitted Sample meets the Requirement of RoHS Annex II of 2011/65/EU and Amendment (EU) 2015/863**

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**PHOTO**



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**# END OF TEST REPORT #**

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