



**EMAMI PAPER MILLS LTD**  
**PM-4 BOARD MACHINE UNIT:-BALASORE**  
[SPECIFICATION SHEET](#)

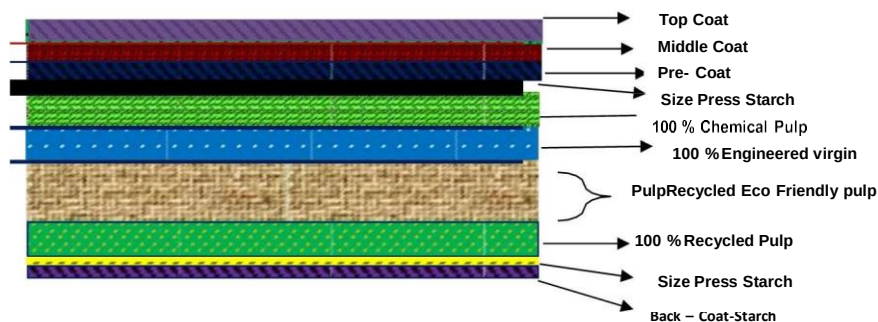
**Rev:-07**

Date: 15.02.2024

**Product :Emami Ecostrong Board**

| Substance (GSM)<br>Tappi T 410 om-02<br>/<br>ISO 536 | Caliper (µm)<br>Tappi<br>T 411 om-97 | Bulk (cm <sup>3</sup> /g)     | Bending Resistance(L&W) mN -Tappi T556 om-95 |            |     |
|------------------------------------------------------|--------------------------------------|-------------------------------|----------------------------------------------|------------|-----|
|                                                      |                                      |                               | MD                                           | CD         | GM  |
| 200                                                  | 260                                  | 1.30                          | 75                                           | 35         | 51  |
| 210                                                  | 273                                  | 1.30                          | 91                                           | 42         | 62  |
| 220                                                  | 286                                  | 1.30                          | 107                                          | 50         | 73  |
| 230                                                  | 299                                  | 1.30                          | 123                                          | 58         | 84  |
| 250                                                  | 325                                  | 1.30                          | 163                                          | 73         | 109 |
| 270                                                  | 351                                  | 1.30                          | 193                                          | 88         | 130 |
| 280                                                  | 364                                  | 1.30                          | 216                                          | 97         | 145 |
| 285                                                  | 371                                  | 1.30                          | 226                                          | 104        | 153 |
| 290                                                  | 377                                  | 1.30                          | 236                                          | 112        | 163 |
| 300                                                  | 390                                  | 1.30                          | 256                                          | 123        | 177 |
| 310                                                  | 403                                  | 1.30                          | 287                                          | 136        | 198 |
| 320                                                  | 416                                  | 1.30                          | 318                                          | 150        | 218 |
| 330                                                  | 429                                  | 1.30                          | 340                                          | 165        | 237 |
| 340                                                  | 449                                  | 1.32                          | 386                                          | 183        | 266 |
| 350                                                  | 462                                  | 1.32                          | 403                                          | 193        | 279 |
| 360                                                  | 475                                  | 1.32                          | 427                                          | 210        | 299 |
| 370                                                  | 488                                  | 1.32                          | 458                                          | 220        | 317 |
| 380                                                  | 502                                  | 1.32                          | 486                                          | 230        | 334 |
| 390                                                  | 515                                  | 1.32                          | 513                                          | 240        | 351 |
| 400                                                  | 528                                  | 1.32                          | 553                                          | 259        | 378 |
| 420                                                  | 554                                  | 1.32                          | 621                                          | 298        | 430 |
| 430                                                  | 568                                  | 1.32                          | 658                                          | 316        | 456 |
| 440                                                  | 581                                  | 1.32                          | 697                                          | 335        | 483 |
| 450                                                  | 594                                  | 1.32                          | 739                                          | 355        | 512 |
| Tol. : ± 3%                                          | ± 5%                                 | ± 5%                          | -15% on Geometric Mean values                |            |     |
| PARAMETER                                            | UNIT                                 | TEST PROCEDURE                |                                              | VALUES     |     |
| Plybond                                              | (J/m <sup>2</sup> )                  | Tappi T 569 pm-00             |                                              | >130       |     |
| Roughness (PPS)                                      | microns (µ)                          | Tappi T 555 om-99/ ISO 8791-4 |                                              | 2.80 (Max) |     |
| IGT Dry pick (MV)                                    | m/s                                  | ISO 3782 & 3783               |                                              | 0.80 (Min) |     |
| ISO Brightness TS                                    | (%)                                  | ISO 2470                      |                                              | 78 (Min)   |     |
| Gloss at 75o                                         | (%)                                  | Tappi T 480 om-92/ ISO 8254-1 |                                              | 35 (Min)   |     |
| Cobb 60 - T/S                                        | g/m <sup>2</sup>                     | Tappi T441 om-98 / ISO 535    |                                              | 50 (Max)   |     |
| B/S                                                  | g/m <sup>2</sup>                     | Tappi T441 om-98 / ISO 535    |                                              | 80 (Max)   |     |
| Moisture                                             |                                      |                               |                                              |            |     |
| 200 - 300 gsm                                        | (%)                                  | Tappi T412 om 02 / ISO 287    |                                              | 6.0 - 7.5  |     |
| 301 - 450 gsm                                        | (%)                                  |                               |                                              | 7.0 - 8.5  |     |

**Board Construction**



**\* Note**

- 1 All Properties are according to Laboratory testing parameters at Emami Paper Mills Ltd, Unit:- Balasore
- 2 All Properties are tested in controlled climatic condition i.e. Temperature:-23±1°C and RH :-50±5 %
- 3 This specification can be improved further, subject to product upgradation
- 4 Tolerance are based upon 95%Confidence limit of single mill measurement of conditioned random samples
5. This specification sheet supersedes all the earlier specification sheets
6. This product is Approved by FHHL-INDIA for direct food packaging application
7. FSC -Mix Credit board is supplied on demand.