



ITC LIMITED - PAPERBOARDS AND SPECIALTY PAPERS DIVISION  
UNIT :- BHADRACHALAM

DEVELOPMENT SPECIFICATION - C2S SG

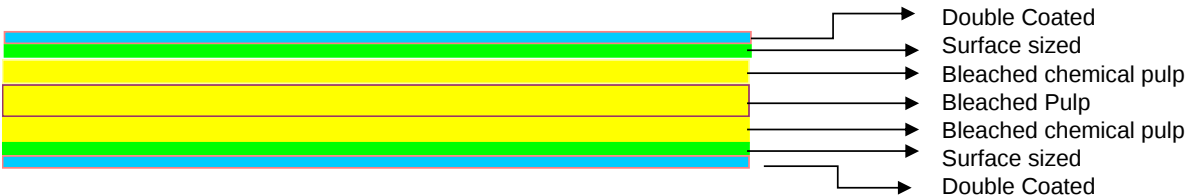
Grade Name : C2S SAFIRE GRAPHIK  
Grade Id : C2SSG

SPEC NO : SG/C2S/PSPD/BCM/004  
Format No : F/QISD/1

| SUBSTANCE (GSM) (Avg.)  | CALIPER (µM) (Avg.)     | BENDING RESISTANCE(L&W) mN |     |      |
|-------------------------|-------------------------|----------------------------|-----|------|
| QS/TM/55<br>Tappi T 410 | QS/TM/06<br>Tappi T 411 | QS/TM/33 Tappi T 556       |     |      |
|                         |                         | MD                         | CD  | GM   |
| 220                     | 243                     | 105                        | 57  | 77   |
| 230                     | 254                     | 126                        | 64  | 90   |
| 240                     | 265                     | 135                        | 70  | 97   |
| 250                     | 276                     | 158                        | 85  | 116  |
| 260                     | 299                     | 180                        | 99  | 133  |
| 270                     | 310                     | 198                        | 105 | 144  |
| 280                     | 323                     | 213                        | 114 | 156  |
| 290                     | 333                     | 242                        | 132 | 179  |
| 300                     | 345                     | 251                        | 136 | 185  |
| 310                     | 372                     | 293                        | 154 | 212  |
| 320                     | 384                     | 312                        | 169 | 230  |
| 330                     | 396                     | 337                        | 183 | 248  |
| 340                     | 408                     | 378                        | 196 | 272  |
| 350                     | 420                     | 401                        | 203 | 285  |
| TOL : ± 3%              | ± 5%                    |                            |     | -15% |

| PARAMETER                  | UNITS | VALUE     |
|----------------------------|-------|-----------|
| PLY BOND (Avg.)            | J/m²  | 150MIN    |
| QS/TM/40 , Tappi T 569     |       |           |
| ROUGHNESS PPS (Avg.)       | µm    |           |
| TOP                        |       |           |
| 250 < GSM ≤ 340            |       | 1.5 MAX   |
| GSM > 340                  |       | 1.5 MAX   |
| QS/TM/49 , Tappi T 555     |       |           |
| BRIGHTNESS ISO             | %     |           |
| TOP                        |       | 92 ± 2    |
| QS/TM/77 , Tappi T 452     |       |           |
| WHITENESS CIE              | %     |           |
| TOP                        |       | 116 ± 4   |
| QS/TM/78 , Tappi T 560     |       |           |
| DELTA - E                  |       |           |
| TOP                        |       | 1.5 MAX   |
| QS/TM/79 , Tappi T 527     |       |           |
| SURFACE STRENGTH           | m/sec |           |
| IGT PICK (MED.VISCOSITY)   |       |           |
| TOP                        |       | 0.7 MIN   |
| QS/TM/31 , ISO 3782 & 3783 |       |           |
| GLOSS AT 75° (Avg.)        | %     |           |
| TOP                        |       | 50 MIN    |
| QS/TM/27 , Tappi T 480     |       | 50 MIN    |
| BOT                        |       |           |
| MOISTURE                   | %     |           |
| GSM ≤ 300                  |       | 7.0 ± 1.0 |
| GSM > 300                  |       | 8.0 ± 1.0 |
| QS/TM/35 , Tappi T 412     |       |           |

Construction



Note :  
1.) All Properties are according to ITC Limited, PSPD Unit:BCM Measurements  
2.) Test Climate 23°C ± 1 & 50% ± 2 RH  
3.) Tolerances are based upon 95% Confidence limits of single mill measurements of conditioned random samples

|              |                  |            |                  |
|--------------|------------------|------------|------------------|
| APPROVED BY  | Head - Marketing | ISSUED BY  | Head - Technical |
| SIGNATURE    |                  | SIGNATURE  |                  |
| VERSION NO.  | 4.0              | ISSUE DATE | 20/12/2018       |
| REVISION NO. | 0.0              | PAGE NO.   | 1 of 1           |