

PT. INDAH KIAT PULP & PAPER Tbk.

Specification of WoodFree Paper

February 5, 2018

Physical Properties

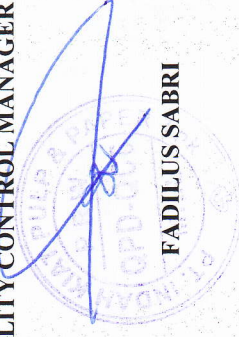
| No | Description | UNIT | Test Reference | Basis Weight (gsm) | | | | | | | | | | | | | | |
|----|-------------------------|-------------------|----------------|----------------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
| | | | | 60 | 70 | 74 | 75 | 80 | 89 | 90 | 95 | 100 | 104 | 105 | 110 | 120 | 130 | |
| 1 | Basis Weight | gr/m ² | T 410 OM - 08 | 60 ± 4 % | 70 ± 4 % | 74 ± 4 % | 75 ± 4 % | 80 ± 4 % | 89 ± 4 % | 90 ± 4 % | 95 ± 4 % | 100 ± 4 % | 104 ± 4 % | 105 ± 4 % | 110 ± 4 % | 120 ± 4 % | 130 ± 4 % | |
| 2 | Thickness | µm | ISO 534 : 1998 | 78 ± 4 | 91 ± 4 | 98 ± 4 | 98 ± 4 | 104 ± 4 | 117 ± 4 | 117 ± 4 | 124 ± 4 | 128 ± 4 | 135 ± 4 | 139 ± 4 | 145 ± 4 | 158 ± 5 | 172 ± 5 | |
| 3 | Moisture Content | % | T 412 OM - 11 | 4.5 - 5.5 | | | | | | | | | | | | | | |
| 4 | Opacity | % | ISO 2471 | ≥ 90.0 | | | | | | | | | | | | | | |
| 5 | Smoothness Bekk | W | T 479 OM - 09 | 15.0 - 35.0 | | | | | | | | | | | | | | |
| | | F | | 15.0 - 35.0 | | | | | | | | | | | | | | |
| 6 | Stiffness Bending (15°) | MD | T 556 OM - 11 | ≥ 0.12 | ≥ 0.22 | ≥ 0.26 | ≥ 0.26 | ≥ 0.32 | ≥ 0.40 | ≥ 0.40 | ≥ 0.40 | ≥ 0.40 | ≥ 0.50 | ≥ 0.60 | ≥ 0.60 | ≥ 0.70 | ≥ 0.80 | ≥ 1.00 |
| | | CD | | ≥ 0.06 | > 0.11 | ≥ 0.13 | ≥ 0.13 | ≥ 0.16 | ≥ 0.20 | ≥ 0.20 | ≥ 0.20 | ≥ 0.20 | > 0.25 | ≥ 0.30 | ≥ 0.30 | ≥ 0.35 | ≥ 0.40 | ≥ 0.50 |

Optical Properties

| No | Description | UNIT | Test Reference | Grade Color | |
|----|---------------|------|----------------|--------------|----------------|
| | | | | Bluish White | Original White |
| 1 | Brightness | % | ISO 2470 | 95.0 ± 1 | 92.0 ± 1 |
| 2 | CIE Whiteness | % | ISO 11476 | 160.0 ± 3 | 137.0 ± 3 |

TESTING CONDITION (T 402 sp 08)
TEMPERATURE 23 ± 1 °C
RELATIVE HUMIDITY 50 ± 2 %

QUALITY CONTROL MANAGER



FADILUS SABRI

