



**PT. PABRIK KERTAS TJIWI KIMIA**  
**SPECIFICATION OF WOOD FREE PM10**  
**INNER SHEET INDIGO WHITE**

Physical Test	Test Method	Basic-Weight*(g/m <sup>2</sup> )								
		50	55	58	60	65	68	70	78	
Kind of Test	Reference									
Grammage, g/m <sup>2</sup>	T410 om-98	50 ± 4%	55 ± 4%	58 ± 4%	60 ± 4%	65 ± 4%	68 ± 4%	70 ± 4%	78 ± 4%	
Thickness, μm	T411 om-97	65 ± 3	72 ± 3	74 ± 3	77 ± 4	82 ± 4	85 ± 4	88 ± 4	97 ± 4	
Smoothness, sec/10ml	T479 om-91	55 ± 10	50 ± 10	50 ± 10	47 ± 10	45 ± 10	45 ± 10	45 ± 10	40 ± 10	
Brightness, %ISO (C/2°)	ISO 2470-1999	86 ~ 90	87 ~ 90	87 ~ 90	87 ~ 90	87 ~ 90	86 ~ 90	87 ~ 90	86 ~ 90	
CIE Whiteness (C/2°)	ISO 11475-1999	130~150	145 ± 5	145 ± 5	145 ± 5	135 ~ 150	130 ~ 150	145 ± 5	130 ~ 150	
Opacity, %	ISO 2471-1999	≥ 86	≥ 88	≥ 88	≥ 89	≥ 90	≥ 91	≥ 91	≥ 93	
Tensile, kg/15mm	T494 om-96	MD	≥ 3.0	≥ 3.2	≥ 3.3	≥ 3.4	≥ 3.7	≥ 3.8	≥ 3.9	≥ 4.3
		CD	≥ 1.5	≥ 1.6	≥ 1.6	≥ 1.7	≥ 1.8	≥ 1.9	≥ 2.0	≥ 2.1
Wax Pick, °A	T459 om-93	≥ 14	≥ 12	≥ 14	≥ 12	≥ 14	≥ 14	≥ 14	≥ 14	
Moisture, %	T412 om-94	≥ 5	5.5 ± 0.5	5.5 ± 0.5	5.5 ± 0.5	5.5 ± 0.5	5.5 ± 0.5	≥ 5	5.5 ± 0.5	
Pen & Ink, Rank	J'Tappi-12	≥ 5.0	≥ 5.0	≥ 5.0	≥ 5.0	≥ 5.0	≥ 5.0	≥ 5.0	≥ 5.0	

Acknowledged

Quality Assurance

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24-Jan-19



**indah kiati**  
pulp and paper products

No : IK Spec 009

**PT. INDAH KIAT PULP & PAPER Tbk.**  
Specification of WoodFree Paper

March 1, 2020

**Physical Properties**

No	Description	UNIT	Test Reference	Basis Weight ( gsm )				
				70	80	90	100	120
1	Basis Weight	gr/m <sup>2</sup>	ISO 536	70 ± 4 %	80 ± 4 %	90 ± 4 %	100 ± 4 %	120 ± 4 %
2	Thickness	µm	ISO 534 : 1998	91 ± 4	104 ± 4	117 ± 4	128 ± 4	158 ± 4
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	≥ 0.22	≥ 0.40	≥ 0.40	≥ 0.50	≥ 0.80
		CD		> 0.11	≥ 0.20	≥ 0.20	> 0.25	≥ 0.40

**Optical Properties**

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

TESTING CONDITION ( T 402 sp 08 )

TEMPERATURE 23 ± 1 °C

RELATIVE HUMIDITY 50 ± 2 %

QUALITY CONTROL MANAGER



Andi Wibowo

