

Name of Laboratory : Paper Laboratory Double A (1991) Public Company Limited  
Address : 1 Moo 2, Tambon Thatoom, Amphoe Srimahaphote,  
Changwat Prachinburi 25140  
Accreditation Number : Testing – 0022  
Contact Person : Miss Praphassorn Klubprasit  
Phone : 0-3720-8800-39 Ext. 6464, 6467  
Fax : 0-3720-8863  
E-mail : paperlab\_d@advanceagro.com  
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Expired date : 20<sup>th</sup> July 2027  
Standard : ISO/IEC 17025:2017  
Reference No. : 0303/12103

### Scope of Laboratory Accreditation

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Accreditation Number : Testing - 0022

Laboratory Status :  Permanent  Site  Temporary  Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Uncoated printing paper	- Basis weight 60 g/m <sup>2</sup> to 120 g/m <sup>2</sup>  - Basis weight 60 g/m <sup>2</sup> to 120 g/m <sup>2</sup>  - CIE whiteness 130 to 165  - ISO Brightness 90 % to 100 %  - D65 Brightness 100 % to 110 %  - Opacity 80 % to 100 %  - Moisture 3 % to 6 %	In - house method : WI-PM-640/7 (Manual) based on ISO 536 : 2019  In - house method : WI-PM-640/1 (Autoline) based on ISO 536 : 2019  ISO 11475 : 2017  ISO 2470-1 : 2016  ISO 2470-2 : 2008  ISO 2471 : 2008  ISO 287 : 2017

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Uncoated printing paper	- Thickness 70 $\mu\text{m}$ to 160 $\mu\text{m}$  - Density 700 $\text{kg}/\text{m}^3$ to 800 $\text{kg}/\text{m}^3$  - Roughness 60 $\text{ml}/\text{min}$ to 190 $\text{ml}/\text{min}$  - Water absorptiveness cobb method (at 60 seconds) 20 $\text{g}/\text{m}^2$ to 40 $\text{g}/\text{m}^2$  - Bending resistance 30 $\text{mN}$ to 310 $\text{mN}$  - Tensile strength 2 $\text{kN}/\text{m}$ to 10 $\text{kN}/\text{m}$  - Tensile strength 2 $\text{kN}/\text{m}$ to 7 $\text{kN}/\text{m}$	In - house method : WI-PM-640/1 (Autoline) based on ISO 534 : 2011  In - house method : WI-PM-640/8 (Autoline) base on ISO 534 : 2011  In - house method : WI-PM-640/1 (Autoline) base on ISO 8791-2 : 2013  In - house method : WI-PM-640/4 (Manual) based on ISO 535 : 2014  In - house method : WI-PM-640/5 (Manual) base on ISO 2493-1 : 2010  In - house method : WI-PM-640/6 (Manual) based on ISO 1924-3 : 2005  In - house method : WI-PM-640/1 (Autoline) based on ISO 1924-3 : 2005

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Uncoated printing paper	- Tearing resistance 270 mN to 950 mN	In - house method : WI-PM-640/1 (Autoline) based on ISO 1974 : 2012
		- Air permeance 550 ml/min to 1 230 ml/min	In - house method : WI-PM-640/1 (Autoline) based on ISO 5636-3 : 2013
2	Xerographic paper	- Basis weight 60 g/m <sup>2</sup> to 120 g/m <sup>2</sup>	In - house method : WI-PM-640/7 (Manual) based on ISO 536 : 2019
		- Basis weight 60 g/m <sup>2</sup> to 120 g/m <sup>2</sup>	In - house method : WI-PM-640/1 (Autoline) based on ISO 536 : 2019
		- CIE whiteness 130 to 165	ISO 11475 : 2017
		- ISO Brightness 90 % to 100 %	ISO 2470-1 : 2016
		- D65 Brightness 100 % to 110 %	ISO 2470-2 : 2008

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2 (cont.)	Xerographic paper	- Opacity 80 % to 100 %	ISO 2471 : 2008
		- Moisture 3 % to 6 %	ISO 287 : 2017
		- Thickness 70 $\mu\text{m}$ to 160 $\mu\text{m}$	In - house method : WI-PM-640/1 (Autoline) based on ISO 534 : 2011
		- Density 700 $\text{kg/m}^3$ to 800 $\text{kg/m}^3$	In - house method : WI-PM-640/8 (Autoline) based on ISO 534 : 2011
		- Roughness 60 ml/min to 190 ml/min	In - house method : WI-PM-640/1 (Autoline) base on ISO 8791-2 : 2013
		- Water absorptiveness cobb method (at 60 seconds) 20 $\text{g/m}^2$ to 40 $\text{g/m}^2$	In - house method : WI-PM-640/4 (Manual) based on ISO 535 : 2014

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Xerographic paper	- Bending resistance 30 mN to 310 mN	In - house method : WI-PM-640/5 (Manual) based on ISO 2493-1 : 2010
		- Tensile strength 2 kN/m to 10 kN/m	In - house method : WI-PM-640/6 (Manual) based on ISO 1924-3 : 2005
		- Tensile strength 2 kN/m to 7 kN/m	In - house method : WI-PM-640/1 (Autoline) based on ISO 1924-3 : 2005
		- Tearing resistance 270 mN to 950 mN	In - house method: WI-PM-640/1 (Autoline) based on ISO 1974 : 2012
		- Air permeance 550 ml/min to 1 230 ml/min	In - house method : WI-PM-640/1 (Autoline) based on ISO 5636-3 : 2013

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