

Technical Data Sheet - 2019

Curious Collection.®

 arjowiggins

Curious Collection[®]

Alchemy

Common attributes	Test method	120g	300g
Printing process suitability		Litho, Silk Screen, Dry Offset (Toray), Blind Embossing, Hot Foiling, Die Stamping	
Laser guaranteed		No	
Ink jet guaranteed		No	
Recommended pH of fount solution		5,5 +/- 0,5	
Wood pulp & bleach type		ECF Woodfree Virgin Pulp - FSC™ Certified	
Surface pH	TAPPI 529OM	7,7	
Non aging credentials	ISO 9706	Yes. It may vary depending on the product colour but should last more than 100 years.	
Environmental label	ISO 14001	Yes	
Quality management	ISO 9002	Yes	
Moisture content (%)	ISO 287	7	
Relative humidity (%)	TAPPI T502	40 - 60	
Caliper (µm)	ISO 534	165	390
Bendtsen roughness (ml/min)	T/S	1070	1175
	W/S	640	525

Please note:

- Curious Alchemy papers and boards are metal-free
- Curious Alchemy is Dry Toner compatible, it would need to be cut to the desired digital format.

These specifications are the property of Arjowiggins Creative Papers and may be changed without prior notice.

They are typical values only for use as a guide.

Curious Collection® Matter

Common attributes		Test method	125g (one side)	135g	270g	380g
Printing process suitability			Litho, Silk Screen, Dry Offset (Toray), Blind Embossing, Hot Foiling, Die Stamping			
Laser guaranteed			Trial			No
Ink jet guaranteed			No			
Recommended pH of fount solution			5,5 +/- 0,5			
Wood pulp & bleach type			ECF Woodfree Virgin Pulp - FSC Certified			
Surface pH		TAPPI 529OM	7-8			
Non aging credentials		ISO 9706	Yes			
Environmental label		ISO 14001	Yes			
Quality management		ISO 9002	Yes			
Moisture content (%)		ISO 287	6,5			
Relative humidity (%)		TAPPI T502	40 - 60			
Caliper (µm)		ISO 534	180	210	365	480
Goya White Opacity		ISO 2471	91	92	93	-
Bendtsen roughness (ml/min)		ISO 2492	1600			
Taber Stiffness (mN)		M direction	10	11	90	220
Stiffness (mN)		C direction	6	6	50	100
		TAPPI T489				

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Curious Collection®

Metallics

Common attributes		Test method	120g	170g	240g	250g	300g
Printing process suitability			Litho, Silk Screen, Dry Offset (Toray), Blind Embossing, (Hot Foiling, Die Stamping) - image and paper texture depending				
Laser guaranteed			Yes		No		
Ink jet guaranteed			Yes				
Recommended pH of fount solution			5,5 +/- 0,5				
Wood pulp & bleach type			ECF Woodfree Virgin Pulp - FSC Certified				
Surface pH		TAPPI 529OM	4.5 for Cryogen White - 7.0 for all other colours				
Non aging credentials		ISO 9706	Yes, it may vary depending the product colour but should last more than 100 years.				
Environmental label		ISO 14001	Yes				
Quality management		ISO 9002 / ISO 9001	Yes				
Moisture content (%)		ISO 287	7				
Relative humidity (gr)		TAPPI T502	40 - 60				
Ice Gold Opacity (%)		ISO 2471	95.5	97.5	-	-	-
Caliper (µm)	Whites	ISO 534	150	210	290	-	340
	Colours		165	-	-	340	415
Bendtsen roughness (ml/min)	Whites	ISO 2494	200	200	200	200	200
	Colours		550	-	-	700	750

Please note:

- No values are given for Embossed products as the process changes roughness, thickness and opacity.
- Curious Metallics papers and boards are metal-free.

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Curious Collection®

Skin

Common attributes		Test method	135g	270g	380g
Printing process suitability			Offset litho (Colours: Oxidizing inks / Whites: Semi fresh inks) / compatible with Metallic & White Offset litho, silkscreen, letterpress, embossing & debossing, hot foiling, die stamping		
Laser cutting			On colours only & tests recommended		
Laser guaranteed			No		
Ink jet guaranteed			No		
Recommended pH of fount solution			5,5 +/- 0,5		
Wood pulp & bleach type			ECF Woodfree Virgin Pulp - FSC Certified		
Surface pH		TAPPI 529OM	8		
Non aging credentials		ISO 9706	Extra White, Ivory, Grey and Stone only		
Environmental label		ISO 14001	Yes		
Quality management		ISO 9002	Yes		
Moisture content (%)		ISO 287	5		5,5
Relative humidity (%)		TAPPI T502	45		
Extra White Opacity (%)		ISO 2471	95,5	-	-
Caliper (µm)		ISO 534	135	300	415
Bekk Smoothness (Bekk sec)		ISO 5627	50	60	60
Stiffness (mN)		M direction ISO 2493	20	160	410
Stiffness (mN)		C direction	14	80	210

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Curious Collection®

Touch

Common attributes		Test method	120g	300g
Printing process suitability			Litho, Silk Screen, Dry Offset (Toray), Embossing, Hot Foiling, Die Stamping- image & paper texture depending	
Laser guaranteed			No	
Mono ink jet guaranteed			Trial	
Colour ink jet guaranteed			No	
Recommended pH of fount solution			5,5 +/- 0,5	
Wood pulp & bleach type			ECF Woodfree Virgin Pulp - FSC Certified	
Environmental label		ISO 14001	Yes	
Quality management		ISO 9002	Yes	
Moisture content (%)		ISO 287	6,5	
Relative humidity (%)		TAPPI T502	40 - 60	
Milk opacity (%)		ISO 2471	92	-
Caliper (µm)		ISO 534	150	375
Stiffness (mN)		M direction ISO 2493	0,55	11,78
Stiffness (mN)		C direction	0,26	5,8

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Translucents

Common attributes	Test method	82g	92g	102g	112g	140g	180g	230g	285g	375g	
Printing process suitability		Litho, Silk Screen, Dry Offset (Toray), HSWO, Blind Embossing, Hot Foiling, Die Stamping, Flexography									
Laser guaranteed		Trial				No					
Ink jet guaranteed		Trial						No			
Recommended pH of fount solution		5,5 +/- 0,5									
Wood pulp & bleach type		ECF Woodfree Virgin Pulp - FSC Certified									
Food compatible		Yes									
Surface pH	TAPPI 529OM	6,5 - 8,5									
Environmental label	ISO 14001	Yes									
Quality management	ISO 9002 / ISO 9001	Yes									
Moisture content (%)	ISO 287	7,5									
Relative humidity (%)	TAPPI T502	40 - 60									

Clear

Common attributes	Test method	82g	92g	102g	112g	140g	180g	230g	285g	375g
Clear opacity (%)	ISO 2471	24-30	26-32	27-33	30-35	30-33,5	33,5-36	36-40	-	-
Caliper (µm)	ISO 534	67-77	73-82	82-90	87-97	105-115	136-146	166-184	-	-
Bendtsen roughness (ml/min)	ISO 8791-2	100-280	100-280	100-280	100-280	120-390	260-660	300-750	-	-

Colours

Common attributes	Test method	82g	92g	102g	112g	140g	180g	230g	285g	375g
Clear opacity (%)	ISO 2471	-	-	-	-	-	-	-	-	-
Caliper (µm)	ISO 534	-	-	-	-	-	-	-	-	-
Bendtsen roughness (ml/min)	ISO 8791-2	-	-	-	-	-	-	-	-	-

Please note:

- Stiffness is not part of the specification for Translucent papers.

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Digital

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Curious Collection®

Matter i-Tone®

Common attributes	Test method	270g
Printing process suitability		Litho, Silk Screen, Dry Offset (Toray), Blind Embossing, Hot Foiling, Die Stamping
HP Indigo certified		Yes
Laser guaranteed		Trial
Ink Jet guaranteed		No
Recommended pH of fount solution		5,5 +/- 0,5
Wood pulp & bleach type		ECF Woodfree Virgin Pulp - FSC Certified
Surface pH	TAPPI 529OM	7-8
Non aging credentials	ISO 9706	Yes
Environmental label	ISO 14001	Yes
Quality management	ISO 9002	Yes
Moisture content (%)	ISO 287	6,5
Relative humidity (%)	TAPPI T502	40 - 60
Goya White Opacity	ISO 2471	93
Caliper (µm)	ISO 534	365
Bendtsen roughness (ml/min)	ISO 2492	1600
Taber Stiffness (mN)	M direction	90
Stiffness (mN)	C direction	50

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Certified for
HP Indigo

Curious Collection®

Matter Dry Toner

Common attributes		Test method	135g	270g
Printing process suitability			Litho, Silk Screen, Dry Offset (Toray), Blind Embossing, Hot Foiling, Die Stamping	
Dry Toner Compatibility			Yes*	
Laser guaranteed			Trial	
Ink Jet guaranteed			No	
Recommended pH of fount solution			5,5 +/- 0,5	
Wood pulp & bleach type			ECF Woodfree Virgin Pulp - FSC Certified	
Surface pH		TAPPI 529OM	7-8	
Non aging credentials		ISO 9706	Yes	
Environmental label		ISO 14001	Yes	
Quality management		ISO 9002	Yes	
Moisture content (%)		ISO 287	6,5	
Relative humidity (%)		TAPPI T502	40 - 60	
Goya White Opacity		ISO 2471	92	93
Caliper (µm)		ISO 534	210	365
Bendtsen roughness (ml/min)		ISO 2492	1600	
Taber Stiffness (mN)	M direction	TAPPI T489	11	90
	C direction		6	50

Please note:

- For printing compatibility with your press, check the Dry Toner Compatibility chart in the Digital Range.
- Many more of our products are Dry Toner compatible, any product not in this Digital range would need to be cut to the desired digital format.



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Metallics i-Tone®

Common attributes		Test method	120g	300g
Printing process suitability			Litho, Silk Screen, Dry Offset (Toray), Blind Embossing, (Hot Foiling, Die Stamping) - image and paper texture depending	
HP Indigo certified			Yes	
Laser guaranteed			Yes	No
Ink jet guaranteed			Yes	
Recommended pH of fount solution			5,5 +/- 0,5	
Wood pulp & bleach type			ECF Woodfree Virgin Pulp - FSC Certified	
Surface pH		TAPPI 529OM	4.5 for Cryogen White - 7.0 for all other colours	
Non aging credentials		ISO 9706	Yes, it may vary depending the product colour but should last more than 100 years.	
Environmental label		ISO 14001	Yes	
Quality management		ISO 9002 / ISO 9001	Yes	
Moisture content (%)		ISO 287	7	
Relative humidity (%)		TAPPI T502	40 - 60	
Ice Gold Opacity (%)		ISO 2471	95.5	-
Caliper (µm)	Whites		150	-
	Colours		165	415
Bendtsen roughness (ml/min)	Whites		200	-
	Colours		550	750

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Certified for
HP Indigo

Curious Collection®

Metallics Dry Toner

Common attributes	Test method	120g	240g	250g	300g
Printing process suitability		Litho, Silk Screen, Dry Offset (Toray), Blind Embossing, (Hot Foiling, Die Stamping) - image and paper texture depending			
Dry Toner Compatibility		Yes			
Laser guaranteed		Yes	No		
Ink jet guaranteed		Yes			
Recommended pH of fount solution		5,5 +/- 0,5			
Wood pulp & bleach type		ECF Woodfree Virgin Pulp - FSC Certified			
Surface pH	TAPPI 529OM	4,5 for Cryogen White - 7,0 for all other colours			
Non aging credentials	ISO 9706	Yes, it may vary depending the product colour but should last more than 100 years.			
Environmental label	ISO 14001	Yes			
Quality management	ISO 9002 / ISO 9001	Yes			
Moisture content (%)	ISO 287	7			
Relative humidity (%)	TAPPI T502	40 - 60			
Ice Gold Opacity (%)	ISO 2471	95.5	-	-	-
Caliper (µm)	Whites	150	285	-	-
	Colours	165	-	340	415
Bendtsen roughness (ml/min)	Whites	250	250	-	-
	Colours	550	-	700	750

Please note:

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Curious Collection®

Skin i-Tone®

Common attributes		Test method	270g	380g	
Printing process suitability			Offset litho (Colours: Oxidizing inks / Whites: Semi fresh inks) / compatible with Metallic & White Offset litho, silkscreen, letterpress, embossing & debossing, hot foiling, die stamping		
HP Indigo certified			Yes		
Laser cutting			On colours only & tests recommended		
Recommended pH of fount solution			5,5 +/- 0,5		
Wood pulp & bleach type			ECF Woodfree Virgin Pulp - FSC Certified		
Laser guaranteed			No		
Ink jet guaranteed			No		
Surface pH		TAPPI 529OM	8		
Non aging credentials		ISO 9706	Extra White, Ivory, Grey and Stone only		
Environmental label		ISO 14001	Yes		
Quality management		ISO 9002 / ISO 9001	Yes		
Moisture content (%)		ISO 287	5	5,5	
Relative humidity (%)		TAPPI T502	45		
Caliper (µm)		ISO 534	300	415	
Bekk Smoothness (Bekk sec)		ISO 5627	60	60	
Stiffness (mN)		ISO 2493	M direction	160	410
Stiffness (mN)			C direction	80	210

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Curious Collection.

Skin Dry Toner

Common attributes	Test method	270g
Printing process suitability		Offset litho (Colours: Oxidizing inks / Whites: Semi fresh inks) / compatible with Metallic & White Offset litho, silkscreen, letterpress, embossing & debossing, hot foiling, die stamping
Dry Toner Compatibility		Yes
Laser cutting		On colours only & tests recommended
Wood pulp & bleach type		ECF Woodfree Virgin Pulp - FSC Certified
Laser guaranteed		No
Ink jet guaranteed		No
Recommended pH of fount solution		5,5 +/- 0,5
Surface pH	TAPPI 529OM	8
None aging credentials	ISO 9706	Extra White, Ivory, Grey and Stone only
Environmental label	ISO 14001	Yes
Quality management	ISO 9002 / ISO 9001	Yes
Moisture content (%)	ISO 287	5
Relative humidity (%)	TAPPI T502	45
Caliper (µm)	ISO 534	300
Bekk Smoothness (Bekk sec)	ISO 5627	60
Stiffness (mN)	M direction	160
Stiffness (mN)	C direction	80

Please note:

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Curious Collection®

Transluents i-Tone®

Common attributes	Test method	112g
Printing process suitability		Litho, Silk Screen, Dry Offset (Toray), HSWO, Blind Embossing, Hot Foiling, Die Stamping, Flexography
HP Indigo certified		Yes
Laser guaranteed		Trial
Ink jet guaranteed		Trial
Wood pulp & bleach type		ECF Woodfree Virgin Pulp - FSC Certified
Food compatible		Yes
Recommended pH of fount solution		5,5 +/- 0,5
Surface pH	TAPPI 529OM	6,5 - 8,5
Environmental label	ISO 14001	Yes
Quality management	ISO 9002 / ISO 9001	Yes
Moisture content (%)	ISO 287	7,5
Relative humidity (%)	TAPPI T502	40 - 60

Clear

Clear opacity (%)	ISO 2471	30 - 35
Caliper (µm)	ISO 534	87 - 97
Bendtsen roughness (ml/min)	ISO 8791-2	100 - 280

Please note:

- Stiffness is not part of the specification for Transluent papers.

Certified for
HP Indigo

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