

Technical Data Sheet - 2017

Curious Collection®

 arjowiggins

Curious Collection®

Matter

Common attributes	Test method	125g (one side)	135g	270g	380g
Wood pulp & bleach type		ECF Woodfree Virgin Pulp - FSC Certified			
Printing process suitability		Litho, Silk Screen, Dry Offset (Toray), Blind Embossing, Hot Foiling, Die Stamping			
Laser		Trial			No
Ink Jet		No			
Recommended pH of fount solution		5.5 +/- 0.5			
Surface pH	TAPPI 529OM	7-8			
None 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

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

They are target values only for use as a guide.



Curious Collection®

Metallics

Common attributes	Test method	120gsm	170gsm	240gsm	250gsm	300gsm
Wood pulp & bleach type		ECF Woodfree Virgin Pulp - FSC Certified				
Printing process suitability		Litho, Silk Screen, Dry Offset (Toray), Blind Embossing, (Hot Foiling, Die Stamping) - image and paper texture depending				
Mono laser guaranteed		Yes		No		
Colour laser guaranteed		Yes		No		
Mono ink jet guaranteed		Yes				
Colour ink jet guaranteed		Yes				
Recommended pH of fount solution		5.5 +/- 0.5				
Surface pH	TAPPI 529OM	4.5 for Cryogen White - 7.0 for all other colours				
Non aging credentials	ISO 9706	All grades but Virtual Pearl / Cryogen White / Europa Ivory				
Environmental label	ISO 14001	All Mills have ISO 14001				
Quality management	ISO 9002	All Mills have ISO 9002 / ISO 9001				
Moisture content (%)	ISO 287	6,5				
Relative humidity (%)	TAPPI T502	40 - 60				
Caliper (µm)						
Cryogen White/Europa Ivory/Virtual Pearl	ISO 534	151	207	287	-	-
All other colours		166	-	-	339	416
Ice Gold Opacity (%)	ISO 2471	95,5	97,5	-	-	-
Bendtsen roughness (ml/min) T/S						
Cryogen White/Europa Ivory/Virtual Pearl	ISO 2494	272	233	269	-	-
All other colours		510	-	-	674	756
Bendtsen roughness (ml/min) W/S						
Cryogen White/Europa Ivory/Virtual Pearl	ISO 2494	287	196	285	-	-
All other colours		570	-	-	728	810
Stiffness (mN)	M direction	10,5	19,7	59	73	131
Stiffness (mN)	C direction	5,8	9,7	28,7	37	63

Please note:

No values are given for Embossed products as the process changes roughness, stiffness, thickness and opacity.

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Curious Collection.

Metallics 100% Recycled

Common attributes	Test method	120gsm	300gsm
Wood pulp & bleach type		100% Recycled Pulp	
Printing process suitability		Litho, Silk Screen, Dry Offset (Toray), Blind Embossing, (Hot Foiling, Die Stamping) - image & paper texture depending	
Mono laser guaranteed		Yes	No
Colour laser guaranteed		Yes	No
Mono ink jet guaranteed		Yes	Yes
Colour ink jet guaranteed		Yes	Yes
Recommended pH of fount solution		5.5 +/- 0.5	
Surface pH	TAPPI 529OM	7.0	
Non aging credentials	ISO 9706	All grades	
Environmental label	ISO 14001	All Mills have ISO 14001	
Quality management	ISO 9002	All Mills have ISO 9002 / ISO 9001	
Moisture content (%)	ISO 287	6,5	6,5
Relative humidity (%)	TAPPI T502	40 - 60	40 - 60
Caliper (µm)	ISO 534	166	416
Ice Gold Opacity (%)	ISO 2471	95.5	-
Bendtsen roughness (ml/min) T/S	ISO 2494	510	
Bendtsen roughness (ml/min) W/S	ISO 2494	570	810
Taber Stiffness (mN)	M direction	ISO 2493	8,3
Stiffness (mN)	C direction		
		4,3	56,7

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Curious Collection.

Skin

Common attributes		Test method	135g	270g	380g
Wood pulp & bleach type			ECF Woodfree Virgin Pulp - FSC Certified		
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		
Skin Digital - Whites only			Whites (Extra White, Ivory and Stone only): HP indigo, Xerox IGEN3 and Xerox Docucolor compatible		
Mono laser guaranteed*			No		
Colour laser guaranteed*			No		
Mono ink jet guaranteed*			No		
Colour ink jet guaranteed*			No		
Recommended pH of fount solution			5.5 +/- 0.5		
Surface pH	TAPPI 529OM		-		
None aging credentials	ISO 9706		Extra White, Ivory, Grey and Stone only		
Environmental label	ISO 14001		All mills have ISO 14001		
Quality management	ISO 9002		All mills have ISO 9002 / ISO 9001		
Moisture content (%)	ISO 287		5		5,5
Relative humidity (%)	TAPPI T502		45		
Caliper (µm)	ISO 534		135	300	415
Extra White Opacity (%)	ISO 2471		95,5	-	-
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

* Curious Collection Skin is NOT inkjet or laser guaranteed. The papers without treatment in the range should give acceptable results on machines such as Kodak NexPress, Xerox iGen3 and other Xerox Docu

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Curious Collection®

Touch

Common attributes		Test method	120g	300g
Wood pulp & bleach type			ECF Woodfree Virgin Pulp - FSC Certified	
Printing process suitability			Litho, Silk Screen, Dry Offset (Toray), Embossing, Hot Foiling, Die Stamping- image & paper texture depending	
Mono laser guaranteed*			No	
Colour laser guaranteed			No	
Mono ink jet guaranteed*			Trial	
Colour ink jet guaranteed			No	
Recommended pH of fount solution			5.5 +/- 0.5	
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	>150	>375
Milk opacity (%)		ISO 2471	92	-
Kodak Stiffness (mN)	M direction	ISO 2493	0,55	11,78
	C direction		0,26	5,8

*Curious Touch papers are inkjet compatible upon tests. They are not laser guaranteed.

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Curious Collection® Translucents

Common attributes	Test method	82g	92g	100g	102g	112g	140g	180g	200g	230g
Wood pulp & bleach type		ECF Woodfree Virgin Pulp - FSC Certified								
Food compatible		Yes								
Printing process suitability		Litho, Silk Screen, Dry Offset (Toray), HSWO, Blind Embossing, Hot Foiling, Die Stamping, Flexography								
Mono laser guaranteed		Trial				No				
Colour laser guaranteed		Trial				No				
Mono ink jet guaranteed*		Trial							No	
Colour ink jet guaranteed		Trial							No	
Recommended pH of fount solution		5.5 +/- 0.5								
Surface pH	TAPPI 529OM	6.5-8.5							6-8	
None aging credentials	ISO 9706	None								
Environmental label	ISO 14001	Yes								
Quality management	ISO 9002	The mill has ISO 9002 / ISO 9001								
Moisture content (%)	ISO 287	6.9-8.1							7.2-8.4	7.5-8.5
Relative humidity (%)	TAPPI T502	40-50							43-53	45-55

Clear

Caliper (µm)	ISO 534	67-77	73-82	-	82-90	87-97	105-115	136-146	-	166-184
Clear opacity (%)	ISO 2471	24-30	26-32	-	27-33	30-35	30-33.5	33.5-36	-	36-40
Bendtsen roughness (ml/min)	ISO 8791-2	100-280	100-280	-	100-280	100-280	120-390	260-660	-	300-750

Colours

Caliper (µm)	ISO 534	-	-	82-90	-	-	-	-	148-162	-
Clear opacity (%)	ISO 2471	-	-	28-54	-	-	-	-	35-70	-
Bendtsen roughness (ml/min)	ISO 8791-2	-	-	100-280	-	-	-	-	300-700	-

Please note:

*The ink jet and laser performance of Curious Transluents vary due to the different manufacturing processes required to obtain the surface finish and texture.

- In all instances a trial is recommended prior to purchase.
- Stiffness is not part of the specification for Translucent papers.

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Curious Collection®

Cosmic

Common attributes		Test method	360g side 1 Coloured side	360g side 2 White side
Wood pulp & bleach type			ECF Woodfree Virgin Pulp - FSC Certified	
Printing process suitability			Litho, Silk Screen, varnishing, Blind Embossing, (Hot Foiling, Die Stamping) - image & paper texture depending. Excellent folding and creasing abilities	
Mono laser guaranteed*			No	
Colour laser guaranteed*			No	
Mono ink jet guaranteed*			No	
Colour ink jet guaranteed*			No	
Recommended pH of fount solution			5.5 +/- 0.5	
Surface pH		TAPPI 529OM	7	
None aging credentials		ISO 9706	Yes	
Environmental label		ISO 14001	All Paper Mills have ISO 14001	
Quality management		ISO 9002	All Paper Mills have ISO 9001	
Moisture content (%)		ISO 287	6	
Relative humidity (%)		TAPPI T502	40 - 60	
Caliper (µm)		ISO 534	350	
Bekk Smoothness (Bekk sec)		ISO 5627	700	50
Stiffness (mN)	M direction	ISO 2493	2100	
Stiffness (mN)	C direction		1100	

*Curious Cosmic is NOT inkjet or laser guaranteed.

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Digital

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Curious Collection Digital Matter i-Tone®

Common attributes	Test method	270g
Wood pulp & bleach type		ECF Woodfree Virgin Pulp - FSC Certified
HP Indigo certified		Yes
Printing process suitability		Litho, Silk Screen, Dry Offset (Toray), Blind Embossing, Hot Foiling, Die Stamping
Laser		Trial
Ink Jet		No
Recommended pH of fount solution		5.5 +/- 0.5
Surface pH	TAPPI 529OM	7-8
None 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	365
Goya White Opacity	ISO 2471	93
Bendtsen roughness (ml/min)	ISO 2492	1600
Taber Stiffness (mN)	M direction	90
Stiffness (mN)	C direction	50

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Curious Collection Digital Matter Dry Toner

Common attributes		Test method	135g	270g
Wood pulp & bleach type			ECF Woodfree Virgin Pulp - FSC Certified	
Dry Toner Compatibility			Yes*	
Printing process suitability			Litho, Silk Screen, Dry Offset (Toray), Blind Embossing, Hot Foiling, Die Stamping	
Laser			Trial	
Ink Jet			No	
Recommended pH of fount solution			5.5 +/- 0.5	
Surface pH		TAPPI 529OM	7-8	
None 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	210	365
Goya White Opacity		ISO 2471	92	93
Bendtsen roughness (ml/min)		ISO 2492	1600	
Taber Stiffness (mN)	M direction	TAPPI T489	11	90
	C direction		6	50

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

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*For printing compatibility with your press, check the Dry Toner Compatibility Chart in the Digital Range.

NB: 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.



Curious Collection Digital Metallics i-Tone®

Common attributes	Test method	120g	300g
Wood pulp & bleach type		ECF Woodfree Virgin Pulp - FSC Certified	
HP Indigo certified		Yes	
Printing process suitability		Litho, Silk Screen, Dry Offset (Toray), Blind Embossing, (Hot Foiling, Die Stamping) - image and paper texture depending	
Mono laser guaranteed		Yes	No
Colour laser guaranteed		Yes	No
Mono ink jet guaranteed		Yes	
Colour ink jet guaranteed		Yes	
Recommended pH of fount solution		5.5 +/- 0.5	
Surface pH	TAPPI 529OM	4.5 for Cryogen White - 7.0 for all other colours	
Non aging credentials	ISO 9706	All grades but Virtual Pearl / Cryogen White / Europa Ivory	
Environmental label	ISO 14001	All Mills have ISO 14001	
Quality management	ISO 9002	All Mills have ISO 9002 / ISO 9001	
Moisture content (%)	ISO 287	6,5	
Relative humidity (%)	TAPPI T502	40 - 60	
Caliper (µm)			
Cryogen White/Europa Ivory/Virtual Pearl	ISO 534	151	-
All other colours		166	416
Ice Gold Opacity (%)	ISO 2471	95.5	-
Bendtsen roughness (ml/min) T/S			
Cryogen White/Europa Ivory/Virtual Pearl	ISO 2494	272	-
All other colours		510	756
Bendtsen roughness (ml/min) W/S			
Cryogen White/Europa Ivory/Virtual Pearl	ISO 2494	287	-
All other colours		570	810
Stiffness (mN)	M direction		
		ISO 2493	
		10,5	131
Stiffness (mN)	C direction		
		5,8	63

Please note:

No values are given for Embossed products as the process changes roughness, stiffness, thickness and opacity.

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Curious Collection Digital Metallics Dry Toner

Common attributes	Test method	120g	240g	250g	300g
Wood pulp & bleach type		ECF Woodfree Virgin Pulp - FSC Certified			
Dry Toner Compatibility		Yes*			
Printing process suitability		Litho, Silk Screen, Dry Offset (Toray), Blind Embossing, (Hot Foiling, Die Stamping) - image and paper texture depending			
Mono laser guaranteed		Yes	No		
Colour laser guaranteed		Yes	No		
Mono ink jet guaranteed		Yes			
Colour ink jet guaranteed		Yes			
Recommended pH of fount solution		5.5 +/- 0.5			
Surface pH	TAPPI 529OM	4.5 for Cryogen White - 7.0 for all other colours			
Non aging credentials	ISO 9706	All grades but Virtual Pearl / Cryogen White / Europa Ivory			
Environmental label	ISO 14001	All Mills have ISO 14001			
Quality management	ISO 9002	All Mills have ISO 9002 / ISO 9001			
Moisture content (%)	ISO 287	6,5			
Relative humidity (%)	TAPPI T502	40 - 60			
Caliper (µm)					
Cryogen White/Europa Ivory/Virtual Pearl	ISO 534	151	287	-	-
All other colours		166	-	339	416
Ice Gold Opacity (%)	ISO 2471	95.5	-	-	-
Bendtsen roughness (ml/min) T/S					
Cryogen White/Europa Ivory/Virtual Pearl	ISO 2494	272	269	-	-
All other colours		510	-	674	756
Bendtsen roughness (ml/min) W/S					
Cryogen White/Europa Ivory/Virtual Pearl	ISO 2494	287	285	-	-
All other colours		570	-	728	810
Stiffness (mN)	M direction				
	ISO 2493	10,5	59	73	131
Stiffness (mN)	C direction				
		5,8	28,7	37	63

Please note:

No values are given for Embossed products as the process changes roughness, stiffness, thickness and opacity.

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*For printing compatibility with your press, check the Dry Toner Compatibility Chart in the Digital Range.

NB: 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.



Curious Collection Digital Skin i-Tone®

Common attributes	Test method	270g	380g
Wood pulp & bleach type		ECF Woodfree Virgin Pulp - FSC Certified	
HP Indigo certified		Yes	
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	
Skin Digital - Whites only		Whites (Extra White, Ivory and Stone only): HP indigo, Xerox IGEN3 and Xerox Docucolor compatible	
Mono laser guaranteed*		No	
Colour laser guaranteed*		No	
Mono ink jet guaranteed*		No	
Colour ink jet guaranteed*		No	
Recommended pH of fount solution		5.5 +/- 0.5	
Surface pH	TAPPI 529OM	-	
None aging credentials	ISO 9706	Extra White, Ivory, Grey and Stone only	
Environmental label	ISO 14001	All mills have ISO 14001	
Quality management	ISO 9002	All mills have ISO 9002 / ISO 9001	
Moisture content (%)	ISO 287	5	5,5
Relative humidity (%)	TAPPI T502		
Caliper (µm)	ISO 534	300	415
Extra White Opacity (%)	ISO 2471	-	-
Bekk Smoothness (Bekk sec)	ISO 5627	60	60
Stiffness (mN)	M direction	160	410
Stiffness (mN)	C direction	80	210

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Curious Collection Digital Skin Dry Toner

Common attributes	Test method	270g
Wood pulp & bleach type		ECF Woodfree Virgin Pulp - FSC Certified
Dry Toner Compatibility		Yes**
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
Skin Digital - Whites only		Whites (Extra White, Ivory and Stone only): HP indigo, Xerox IGEN3 and Xerox Docucolor compatible
Mono laser guaranteed*		No
Colour laser guaranteed*		No
Mono ink jet guaranteed*		No
Colour ink jet guaranteed*		No
Recommended pH of fount solution		5.5 +/- 0.5
Surface pH	TAPPI 529OM	-
None aging credentials	ISO 9706	Extra White, Ivory, Grey and Stone only
Environmental label	ISO 14001	All mills have ISO 14001
Quality management	ISO 9002	All mills have ISO 9002 / ISO 9001
Moisture content (%)	ISO 287	5
Relative humidity (%)	TAPPI T502	45
Caliper (µm)	ISO 534	300
Extra White Opacity (%)	ISO 2471	-
Bekk Smoothness (Bekk sec)	ISO 5627	60
Stiffness (mN)	M direction	160
Stiffness (mN)	C direction	80

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**For printing compatibility with your press, check the Dry Toner Compatibility Chart in the Digital Range.

NB: 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.



Curious Collection Digital Translucents i-Tone®

Common attributes	Test method	112g
Wood pulp & bleach type		ECF Woodfree Virgin Pulp - FSC Certified
HP Indigo certified		Yes
Food compatible		Yes
Printing process suitability		Litho, Silk Screen, Dry Offset (Toray), HSWO, Blind Embossing, Hot Foiling, Die Stamping, Flexography
Mono laser guaranteed		Trial
Colour laser guaranteed		Trial
Mono ink jet guaranteed*		Trial
Colour ink jet guaranteed		Trial
Recommended pH of fount solution		5.5 +/- 0.5
Surface pH	TAPPI 529OM	6.5-8.5
None aging credentials	ISO 9706	None
Environmental label	ISO 14001	Yes
Quality management	ISO 9002	The mill has ISO 9002 / ISO 9001
Moisture content (%)	ISO 287	6.9-8.1
Relative humidity (%)	TAPPI T502	40-50

Clear

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

Please note:

*The ink jet and laser performance of Curious Translucents vary due to the different manufacturing processes required to obtain the surface finish and

- In all instances a trial is recommended prior to purchase.
- Stiffness is not part of the specification for Translucent papers.

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