



EMAMI PAPER MILLS LIMITED
PAPER MACHINE-1,2&3, UNIT:-BALASORE

SPECIFICATION SHEET FOR EMAMI WRITING AND PRINTING PAPER.

Grade Name :	Emami Writing & Printing paper (Recycled)														SPEC NO : 01
Grade Id :	RWP														Format No :01
Machine :	PMC # 1														Rev:-00
PARAMETERS	STANDARD	UOM	PM1												TOLERANCE
			RWP-50	RWP-52	RWP-54	RWP-56	RWP-58	RWP-60	RWP-64	RWP-68	RWP-70	RWP-75	RWP-78	RWP-80	
SUBSTANCE	Tappi T410	gsm	50	52	54	56	58	60	64	68	70	75	78	80	± 2.5%
Caliper	Tappi T411	μ	73	75	78	78	81	84	90	95	98	101	105	108	± 3.0%
BULK	Tappi T411	cc/g	1.53	1.53	1.53	1.53	1.50	1.45	1.45	1.44	1.40	1.38	1.38	1.38	± 3.0%
BRIGHTNESS	ISO 2470	% ISO	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	Minimum
CIE WHITNESS	ISO 11476	% ISO	125	125	125	125	125	125	125	125	125	125	125	125	Minimum
OPACITY	ISO 2471	% ISO	90	90	90	90	90	90	90	90	90	90	90	90	Minimum
ROUGHNESS - BENDTSEN TS	ISO 8791 - 2	ml/min	200	200	200	200	200	200	200	200	200	200	200	200	Maximum
ROUGHNESS - BENDTSEN WS	ISO 8791 - 2	ml/min	250	250	250	250	250	250	250	250	250	250	250	250	Maximum
POROSITY	Tappi T547	ml/min	1200	1200	1200	1200	1000	1000	1000	800	800	800	800	800	Maximum
TEAR INDEX, MD	Tappi T413	mNm ² /g	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	Minimum
TEAR INDEX, CD	Tappi T414	mNm ² /g	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	Minimum
TENSILE INDEX, MD	Tappi T494	Nm/g	40.0	40.0	40.0	40.0	35.0	35.0	35.0	32.0	32.0	32.0	32.0	32.0	Minimum
TENSILE INDEX, CD	Tappi T494	Nm/g	25.0	25.0	25.0	25.0	23.0	23.0	23.0	20.0	20.0	20.0	20.0	20.0	Minimum
BREAKING LENGTH (MD)	Tappi T494	meters	4080	4080	4080	4080	3570	3570	3570	3264	3264	3264	3264	3264	Minimum
BREAKING LENGTH (CD)	Tappi T494	meters	2550	2550	2550	2550	2346	2346	2346	2040	2040	2040	2040	2040	Minimum
COBB SIZING (60 Secs)	Tappi T441	gsm	25	25	25	25	25	25	25	25	25	25	25	25	Maximum
L	ISO 2470	-	86	86	86	86	86	86	86	86	86	86	86	86	± 0.5
a	ISO 2470	-	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	± 0.5
b	ISO 2470	-	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	± 0.5
MOISTURE	Tappi T412	%	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	± 0.5
WAX PICK TS/WS	Tappi T459	No.	12A/12A	12A/12A	12A/12A	12A/12A	12A/12A	12A/12A	12A/12A	12A/12A	12A/12A	12A/12A	12A/12A	12A/12A	Minimum

Note:

- 1.) All Properties are according to Standard method.
- 2.) Samples are tested at Test Climate 27°C ± 1 & 65% ± 2 RH.
- 3.) Tolerances are based upon 95% Confidence limits of single mill measurements of conditioned random samples.

PM 1,2,3 Quality Assurance