



Research & Development



Product Specification

S.No.	Properties		UOM	Product Quality : Kitchen Towel							
				1 Ply	2 Ply	3 Ply	1 Ply	2 Ply	2 Ply	1 Ply	1 Ply
1	No of Ply			1 Ply	2 Ply	3 Ply	1 Ply	2 Ply	2 Ply	1 Ply	1 Ply
2	Substance (1 Ply)		g/m ²	19 ± 0.6	19 ± 0.6	19 ± 0.6	20 ± 0.7	20 ± 0.7	21.0 ± 0.5	22 ± 0.7	22.8 ± 0.5
3	Thickness (1 PLY)		Micron	95 ± 10	95 ± 10	95 ± 10	100 ± 10	100 ± 10	105 ± 10	110 ± 10	141 ± 10
4	*Bulk		CC/gm	5.0 ± 0.5	5.0 ± 0.5	5.0 ± 0.5	5.0 ± 0.5	5.0 ± 0.5	5.0 ± 0.5	5.0 ± 0.5	6.0 ± 0.3
5	*Dry Tensile Strength	MD	gf/25mm	550 ± 100	1050 ± 100	1550 ± 100	550 ± 100	1100 ± 100	250 ± 100	1200 ± 100	700 ± 100
		CD	gf/25mm	423 ± 50	808 ± 50	1192 ± 50	423 ± 50	846 ± 50	961 ± 50	923 ± 50	538 ± 50
6	MDT/CDT RATIO			1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2
7	Stretch	MD	%	15 ± 2	15 ± 2	15 ± 2	15 ± 2	15 ± 2	13 ± 2	16 ± 2	18 ± 2
8	Wet Tensile Strength	MD	gf/50mm	127 ± 25	245 ± 25	370 ± 25	140 ± 25	280 ± 25	320 ± 25	320 ± 25	182 ± 25
9	Wet / Dry Tensile		%	23 ± 2	23 ± 2	23 ± 2	23 ± 2	23 ± 2	25 ± 2	24 ± 2	26 ± 2
10	*ISO Brightness(Frank, PTI)		% ISO	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2
11	Shade		-	Natural							
12	Furnish		-	Virgin pulp							
13	Core (ID)		mm	76							
14	Number of joints		-	70% ZERO JOINT, 20% ONE JOINT 10% TWO JOINTS							
15	Reel Diameter		mm	± 10 % of Actual ordered reel dia.							

*Note : If goes beyond higher side tolerance, Quality is OK.

Test Conditions : Temperature 23 ± 1°C & Relative Humidity 50± 2 % (Tappi 402)

All properties are as per CPP Lalkua measurements

Tolerance are based upon 95 % confidence limits of single mill measurement on conditioned Random samples

An ISO 9001,ISO 14001 & ISO 45001 Company.

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DGM (QA/R&D)	Head Process						
	CSO						
	CEO						



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Product Specification

S.No.	Properties		UOM	Product Quality : Kitchen Towel							
				1 Ply	1 Ply	1 Ply	1 Ply	1 Ply	1 Ply	1 Ply	1 Ply
1	No of Ply			1 Ply	1 Ply	1 Ply	1 Ply	1 Ply	1 Ply	1 Ply	1 Ply
2	Substance (1 Ply)		g/m ²	23 ± 0.8	30 ± 0.8	32 ± 0.8	34 ± 0.9	35 ± 0.9	36 ± 0.9	37 ± 0.9	38 ± 0.9
3	Thickness (1 PLY)		Micron	104 ± 10	135 ± 10	138 ± 10	146 ± 10	151 ± 10	155 ± 10	140 ± 10	152 ± 10
4	*Bulk		CC/gm	4.5 ± 0.5	4.5 ± 0.5	4.3 ± 0.5	4.3 ± 0.5	4.3 ± 0.5	4.3 ± 0.5	4.0 ± 0.5	4.0 ± 0.5
5	*Dry Tensile Strength	MD	gf/25mm	680 ± 100	1050 ± 100	1150 ± 100	1280 ± 100	1400 ± 100	1500 ± 100	1650 ± 100	1700 ± 100
		CD	gf/25mm	598 ± 50	910 ± 50	884 ± 50	984 ± 50	1077 ± 50	1153 ± 50	1269 ± 50	1308 ± 50
6	MDT/CDT RATIO			1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2
7	Stretch	MD	%	16 ± 2	16 ± 2	13 ± 2	13 ± 2	13 ± 2	13 ± 2	13 ± 2	13 ± 2
8	Wet Tensile Strength	MD	gf/50mm	165 ± 25	311 ± 25	368 ± 25	410 ± 25	460 ± 25	480 ± 25	538 ± 25	545 ± 25
9	Wet / Dry Tensile		%	24 ± 2	30 ± 2	32 ± 2	32 ± 2	32 ± 2	32 ± 2	32 ± 2	32 ± 2
10	*ISO Brightness(Frank, PTI)		% ISO	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2
11	Shade		-	Natural							
12	Furnish		-	Virgin pulp							
13	Core (ID)		mm	76							
14	Number of joints		-	70% ZERO JOINT, 20% ONE JOINT 10% TWO JOINTS							
15	Reel Diameter		mm	± 10 % of Actual ordered reel dia.							

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Product Specification

S.No.	Properties		UOM	Product Quality : Kitchen Towel							
				1 Ply	1 PLY	1 Ply(HS)	2 Ply (HS)	1 Ply	2 Ply	1 Ply	2 Ply
1	No of Ply										
2	Substance (1 Ply)		g/m ²	40 ± 1	42 ± 1	17 ± 0.5	17 ± 0.5	17 ± 0.6	17 ± 0.6	18 ± 0.6	18 ± 0.6
3	Thickness (1 PLY)		Micron	140 ± 10	160 ± 10	100 ± 10	100 ± 10	85 ± 10	85 ± 10	90 ± 10	90 ± 10
4	*Bulk		CC/gm	3.8 ± 0.5	3.5 ± 0.5	5.9 ± 0.5	5.9 ± 0.5	5.0 ± 0.5	5.0 ± 0.5	5.0 ± 0.5	5.0 ± 0.5
5	*Dry Tensile Strength	MD	gf/25mm	1940 ± 100	2100 ± 100	480 ± 50	950 ± 50	460 ± 100	900 ± 100	500 ± 100	950 ± 100
		CD	gf/25mm	1461 ± 50	1615 ± 50	369 ± 25	730 ± 25	353 ± 50	692 ± 50	385 ± 50	730 ± 50
6	MDT/CDT RATIO			1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2	1.3 ± 0.2
7	Stretch	MD	%	13 ± 2	13 ± 2	20 ± 1	20 ± 1	14 ± 2	14 ± 2	14 ± 2	14 ± 2
8	wet tensile strength	MD	gf/50mm	620 ± 25	672 ± 25	105 ± 12	210 ± 25	83 ± 12	175 ± 25	83 ± 12	175 ± 25

9	Wet / Dry Tensile	%	32 ± 2	32 ± 2	20 ± 2	20 ± 2	18 ± 2	18 ± 2	18 ± 2	18 ± 2
10	*ISO Brightness(Frank, PTI)	% ISO	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2
11	Shade	-	Natural							
12	Furnish	-	Virgin pulp							
13	Core (ID)	mm	76							
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