



## Quality Assurance and R&D Division



### PRODUCT SPECIFICATION

S.No.	Properties	UOM	PRODUCT QUALITY : TOILET									
1	No of Ply		<b>2 Ply</b>	<b>2 Ply</b>	<b>2 Ply</b>	<b>2 Ply</b>	<b>3 Ply</b>	<b>2 Ply</b>	<b>3 Ply</b>	<b>2 Ply</b>	<b>3 Ply</b>	
2	Substance (1 Ply)	g/m <sup>2</sup>	14 ± 0.5	15 ± 0.5	16 ± 0.6	17 ± 0.6	17 ± 0.6	18 ± 0.6	18 ± 0.6	19 ± 0.6	22 ± 0.7	
3	Thickness (1 PLY)	Micron	91 ± 10	98 ± 10	104 ± 10	111 ± 10	111 ± 10	117 ± 10	117 ± 10	124 ± 10	143 ± 10	
4	Bulk	CC/gm	6.5 ± 0.5	6.5 ± 0.5	6.5 ± 0.5	6.5 ± 0.5	6.5 ± 0.5	6.5 ± 0.5	6.5 ± 0.5	6.5 ± 0.5	6.5 ± 0.5	
5	Dry Tensile Strength	MD	gf/25mm	500 ± 50	550 ± 50	625 ± 50	700 ± 50	1000 ± 50	750 ± 50	1025 ± 50	760 ± 50	1200 ± 50
		CD	gf/25mm	230 ± 25	260 ± 25	298 ± 25	320 ± 25	450 ± 25	350 ± 25	475 ± 25	370 ± 25	570 ± 25
6	MDT/CDT RATIO		2.2 ± 0.2	2.1 ± 0.2	2.2 ± 0.2	2.2 ± 0.2	2.2 ± 0.2	2.2 ± 0.2	2.2 ± 0.2	2.2 ± 0.2	2.1 ± 0.2	2.1 ± 0.2
7	Stretch	MD	%	17 ± 2	17 ± 2	16 ± 2	16 ± 2	16 ± 2	16 ± 2	16 ± 2	16 ± 2	16 ± 2
8	Wet Tensile Strength	MD	gf/50mm	-	-	-	-	-	-	-	-	-
9	Wet / Dry Tensile		%	-	-	-	-	-	-	-	-	-
10	ISO Brightness(Frank, PTI )		% ISO	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2	87 ± 2
11	Moisture		-	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	5.0 ± 0.5	5.0 ± 0.5
12	pH		-	7.0 ± 0.2	7.0 ± 0.2	7.0 ± 0.2	7.0 ± 0.2	7.0 ± 0.2	7.0 ± 0.2	7.0 ± 0.2	7.0 ± 0.2	7.0 ± 0.2
13	Shade		-	Natural								
14	Furnish		-	Viirgin pulp								
15	Core (ID)		mm	76								
16	Number of joints		-	70% ZERO JOINT, 20% ONE JOINT 10% TWO JOINTS								
17	Reel Diameter		mm	± 10 % of Actual ordered reel dia								

An ISO 9001 : 2008 , ISO 14001:2004 & OHSAS 18001:2007 Company



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S.No.	Properties	UOM	PRODUCT QUALITY : TOILET							
1	No of Ply		<b>1 Ply</b>	<b>3 Ply</b>						
2	Substance (1 Ply)	g/m2	17 ± 0.6	15 ± 0.5						
3	Thickness (1 PLY)	Micron	111 ± 10	98 ± 10						
4	Bulk	CC/gm	6.5 ± 0.5	6.5 ± 0.5						
5	Dry Tensile Strength	MD	gf/25mm	355 ± 50	825 ± 50					
		CD	gf/25mm	160 ± 25	390 ± 25					
6	MDT/CDT RATIO		2.2 ± 0.2	2.1 ± 0.2						
7	Stretch	MD	%	16 ± 2	17 ± 2					
8	Wet Tensile Strength	MD	gf/50mm	-	-					
9	Wet / Dry Tensile		%	-	-					
10	ISO Brightness(Frank, PTI )	% ISO	87 ± 2	87 ± 2						
11	Moisture		-	5.0 ± 0.5	5.0 ± 0.5					
12	pH		-	7.0 ± 0.2	7.0 ± 0.2					
13	Shade	-	Natural							
14	Furnish	-	Viirgin pulp							
15	Core (ID)	mm	76							
16	Number of joints	-	70% ZERO JOINT, 20% ONE JOINT 10% TWO JOINTS							
17	Reel Diameter	mm	± 10 % of Actual ordered reel dia.							

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