



ITC LIMITED - PAPER BOARDS AND SPECIALTY PAPERS DIVISION
UNIT :- BHADRACHALAM

SPECIFICATION SHEET

Grade Name : SAFIRE GRAPHIK (C1S)

Grade Id : SGC

SPEC NO: SGC/EXP/PSPD/BCM/IV/002

GRAMMAGE g/m ² QS/TM/55 Tappi T 410 om-98	THICKNESS µm QS/TM/06 Tappi T 411 om-97	BENDING RESISTANCE			STIFFNESS	
		L&W 15° mN			Taber 15° mNm	
		QS/TM/33 Tappi T556 om-95			QS/TM/56 Tappi T 489 Om-99	
		MD	CD	GM	MD	CD
190	224	65	36	48	3.1	1.7
200	236	72	40	54	3.5	1.9
210	248	80	44	59	3.9	2.1
215	254	85	48	64	4.1	2.3
220	260	98	53	72	4.7	2.6
230	271	110	60	81	5.3	2.9
240	283	125	70	94	6.0	3.4
250	295	140	80	106	6.8	3.9
260	307	160	90	120	7.7	4.3
270	319	180	100	134	8.7	4.8
275	325	190	105	141	9.2	5.1
280	330	200	110	148	9.7	5.3
285	336	210	115	155	10.1	5.6
290	342	225	125	168	10.9	6.0
300	354	240	130	177	11.6	6.3
310	366	260	145	194	12.6	7.0
320	378	280	155	208	13.5	7.5
330	389	305	170	228	14.7	8.2
340	401	340	185	251	16.4	8.9
350	413	365	203	272	17.6	9.8
360	425	385	220	291	18.6	10.6
380	448	415	235	312	20.0	11.4
400	480	500	278	373	24.2	13.4
TOL :	± 3%	± 5%		± 10%	± 10%	

PARAMETER	UNITS	VALUE
PLY BOND (Avg.) QS/TM/40 , Tappi T 833 pm-94	J/m ²	150 MIN
ROUGHNESS PPS (Avg.) TOP	µm	
<240		1.8 MAX
241-300 GSM		2.3 MAX
301-450 GSM		2.5 MAX
QS/TM/49 , Tappi T 555 pm-94		
BRIGHTNESS ISO	%	
TOP		91.5 ± 1.5
BACK		91.5 ± 1.5
QS/TM/04 , ISO 2469		
WHITENESS CIE	%	
TOP		112.0 ± 4.0
BACK		114.0 ± 4.0
QS/TM/66 , Tappi T 560 pm-96		
DELTA - E		
TOP & BACK		1.5 MAX
QS/TM/12 , Tappi T 527 om-94		
SURFACE STRENGTH	m/sec	
IGT PICK (MED.VISCOSITY)		0.7 MIN
QS/TM/31 , ISO 3782 & 3783		
GLOSS AT 75° (Ind.)	%	40 MIN
QS/TM27, Tappi T 480 om-92		
MOISTURE CONTENT	%	
≤300 GSM		6.0 - 7.0
>300 GSM		7.0 - 8.5
QS/TM/35 ,Tappi T 412 om - 94		

Construction



Note :

- 1.) All Properties are according to
- 2.) Test Climate 23°C/50%RH (Conditioning as per Tappi T 402 sp-98)
- 3.) Tolerances are based upon 95% Confidence limits of single mill measurements of conditioned random samples

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