



ITC PAPERBOARDS & SPECIALTY PAPERS DIVISION



UNIT BHADRACHALAM

PRODUCT SPECIFICATION SHEET

Grade Name : SAFIRE GRAPHIK
Grade Id : SG

Issued On : 01/06/2016
Last Reviewed On : 05/11/2018

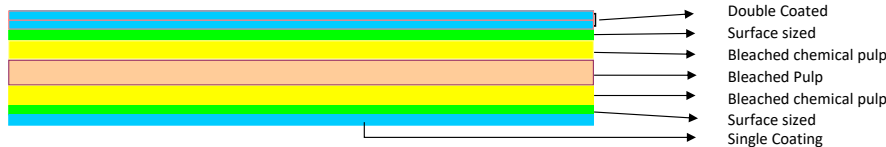
SUBSTANCE (GSM) (Avg) QS/TM/55 Tappi T 410	CALIPER (µM) (Avg) QS/TM/06 Tappi T 411	CALIPER (Pts)	BENDING RESISTANCE (L&W) mN			BENDING MOMENT (Taber 15°) mNm			TABER STIFFNESS (Taber 15°) gf.cm		
			QS/TM/33 Tappi T 556			QS/TM/33 Tappi T 489			Tappi T 489		
			MD	CD	GM	MD	CD	GM	MD	CD	GM
200	238	9.4	81	43	59	3.9	2.1	2.9	40	21	29
210	250	9.8	91	51	68	4.4	2.5	3.3	45	25	34
220	262	10.3	105	57	77	5.1	2.8	3.7	52	28	38
230	274	10.8	126	64	90	6.1	3.1	4.3	62	32	44
240	286	11.2	135	70	97	6.5	3.4	4.7	66	34	48
250	298	11.7	158	85	116	7.6	4.1	5.6	78	42	57
260	309	12.2	180	99	133	8.7	4.8	6.4	89	49	66
270	321	12.6	198	105	144	9.6	5.1	7.0	98	52	71
275	327	12.9	204	110	150	9.9	5.3	7.2	100	54	74
280	333	13.1	213	114	156	10.3	5.5	7.5	105	56	77
285	339	13.4	228	124	168	11.0	6.0	8.1	112	61	83
290	345	13.6	242	132	179	11.7	6.4	8.6	119	65	88
300	360	14.2	251	136	185	12.1	6.6	8.9	124	67	91
310	372	14.6	293	154	212	14.2	7.4	10.3	144	76	105
320	384	15.1	312	169	230	15.1	8.2	11.1	154	83	113
330	396	15.6	337	183	248	16.3	8.8	12.0	166	90	122
340	408	16.1	378	196	272	18.3	9.5	13.1	186	97	134
350	420	16.5	401	203	285	19.4	9.8	13.8	197	100	141
360	439	17.3	432	229	315	20.9	11.1	15.2	213	113	155
380	464	18.3	451	246	333	21.8	11.9	16.1	222	121	164
400	488	19.2	545	285	394	26.3	13.8	19.0	268	140	194
450	549	21.6	722	375	520	34.9	18.1	25.1	356	185	256
TOL : ± 3%	± 5%	± 5%				-15%		-15%			-15%

PARAMETER	UNITS	VALUE
PLY BOND (Avg.) QS/TM/40, Tappi T 569	J/m ²	150 MIN
ROUGHNESS PPS (Avg.) 250 < GSM ≤ 340 GSM > 340	µm	2.3 MAX 2.5 MAX
TOP		
QS/TM/49, Tappi T 555		
BRIGHTNESS ISO	%	92 ± 2
TOP		
QS/TM/77, Tappi T 452		
WHITENESS CIE	%	85 MIN
TOP		
QS/TM/78, Tappi T 560		
DELTA - E		1.5 MAX
TOP		
QS/TM/79, Tappi T 527		
SURFACE STRENGTH IGT PICK (MED.VISCOSITY)	m/s	0.7 MIN
TOP		
QS/TM/31, ISO 3782 & 3783		
GLOSS AT 75° (Avg.)	%	35 MIN
TOP		
QS/TM/27, Tappi T 480		
MOISTURE	%	7.0 ± 1.0
GSM ≤ 300		8.0 ± 1.0
GSM > 300		
QS/TM/35, Tappi T 412		

MILL CERTIFICATIONS	
Manufacturing	ISO 9001: 2015, ISO 14001: 2015, BRC Global Standard, Issue-5
Environmental & Safety	FSC® CoC, Light ECF, CII GreenCo Platinum, OHSAS 18001: 2007
FOOD CONTACT COMPLIANCE	
USFDA	CFR 21 176.170 CFR 21 176.180
REACH SVHCs	Article 57, EC1907/2006, ECHA
ROHS/BfR XXXVI	EC1907/2006 EU2015/863 RoHS-EU/65/2011
CALIFORNIA PROPOSITION 65	NOT REQUIRED
AfPS German Standards	AfPS GS 2014.01 PAK
QUALITY INFORMATION & SERVICE LABORATORIES	
NABL Accrediated(Compliance to ISO 17025:2005)	

NOTE
1. All Properties are according to ITC PSPD Measurements
2. Test Climate 23°C ± 1 & 50% ± 2 RH
3. Tolerances are based upon 95% Confidence limits of single mill measurements of conditioned random samples

CONSTRUCTION



KEY USAGE

FMCG	CONSUMER ELECTRONICS	GARMENTS	PHARMA	PUBLISHING	DIGITAL	CULTURAL/ CARDS

Spec No : SG/SGH/PSPD/BCM/004

Format No: F/QISD/1