

ITC PAPERBOARDS & SPECIALTY PAPERS DIVISION



UNIT BHADRACHALAM

PRODUCT SPECIFICATION SHEET

ade Name : SAFIRE GRAPHI ade Id : SG	<							Issued On: Last Reviewe	ed On :	01/06/2016 05/11/2018	
SUBSTANCE (GSM) (Avg) QS/TM/55	CALIPER (μM) (Avg) QS/TM/06	CALIPER (Pts)		NDING RESIST (L&W) mN M/33 Ta		(Та	IDING MOMI aber 15°) mN IM/33 Tappi	m	(Ta	BER STIFFNESS aber 15°) gf.cm Tappi T 489	
Tappi T 410	Tappi T 411		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%
	PARAM	FTFR	UNITS	VALUE			MILL	CERTIFICAT	IONS		1
	PLY BOND (Avg.)		J/m ²	150 MIN			INILL				l
		T. 5. 60	J/m-	150 IVIIN					SO 9001: 2015		
	QS/TM/40 , Tappi					Manufad	cturing		O 14001: 201		
	ROUGHNESS PPS	,	μm					BRC Gl	obal Standard,	Issue-5	
		TOP						FSC	® CoC, Light E	CF,	
	250 < GSM ≤ 340			2.3 MAX		Environment	al & Safety		GreenCo Platin		
	GSM > 340			2.5 MAX			,		SAS 18001: 20		
				2.5 10000		1		1			

$250 < GSM \le 340$			2.3 MAX
GSM > 340			2.5 MAX
QS/TM/49 , Tappi T 555			
BRIGHTNESS ISO		%	
	ТОР		92 ± 2
QS/TM/77 , Tappi T 452			
WHITENESS CIE		%	
	ТОР		85 MIN
QS/TM/78 , Tappi T 560			
DELTA - E			
	TOP		1.5 MAX
QS/TM/79, Tappi T 527			
SURFACE STRENGTH		m/s	
IGT PICK (MED.VISCOSITY)			
	ТОР		0.7 MIN
QS/TM/31 , ISO 3782 & 378	3		
GLOSS AT 75º (Avg.)		%	
	ТОР		35 MIN
QS/TM/27 , Tappi T 480			
MOISTURE		%	
GSM ≤ 300			7.0 ± 1.0
GSM > 300			8.0 ± 1.0
CS/TM/35 ,Tappi T 412			

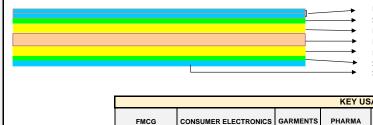
MILL CERTIFICATIONS		
Manufacturing	ISO 9001: 2015, ISO 14001: 2015, BRC Global Standard, Issue-5	
Environmental & Safety	FSC® CoC, Light ECF, CII GreenCo Platinum, OHSAS 18001: 2007	
FOOD CONTACT COMPLIANCE		
USFDA	CFR 21 176.170 CFR 21 176.180	
REACH SVHCs	Article 57, EC1907/2006, ECHA	
ROHS/BfR XXXVI	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
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All Properties are according to ITC PSPD Measurements
 Test Climate 23^QC ± 1 & 50% ± 2 RH
 Tolerances are based upon 95% Confidence limits of single mill

measurements of conditioned random samples

CONSTRUCTION



Spec No :

Double Coated
Surface sized
Bleached chemical pulp
Bleached Pulp
Bleached chemical pulp
Surface sized
Single Coating

			KEY US	AGE		
FMCG	CONSUMER ELECTRONICS	GARMENTS	PHARMA	PUBLISHING	DIGITAL	CULTURAL/ CARDS
SG/SGH/PSPD/BC	CM/004				Format No:	F/QISD/1





Material Safety Data Sheet

Product(s)	: Safire Graphik
Specification Reference	: SG/CSG/PSPD/BCM/IV/003
	SG/GEN/PSPD/BCM/IV/003
	SG/SGC/PSPD/BCM/IV/003
	SG/SGT/PSPD/BCM/IV/003
	SG/SSC/PSPD/BCM/IV/003
	SG/SSG/PSPD/BCM/IV/003
	SG/GEN/PSPD/BCM/V/003

MSDS Code : MSDS/SG/ALL/PSPD/BCM/003

1. Product Identification

Product	Manufacturing Location	Manufacturer
Safire Graphik	Unit: Bhadrachalam	ITC Limited,
(SG,CSG,SGC,SGT,SSC,SSG)		Paperboards and
		Specialty papers
		Division

2. Major Ingredients/Identity Information

Name	CAS#	Percent	Compliance
Bleached Fiber	9004-34-6	70 – 80	US FDA 176.170
(Cellulose)			Compliant
Rosin Size	None	0.5 – 1.0	21CFR
			176.170(a)(5)
Talcum (Filler)	None	4 – 5	
Coating pigments			FDA under 21 CFR
			176.170,176.180





Calcium Carbonate	1317 – 65 – 3	22 – 25	
Kaolin Clay	1332 – 58 – 7		
Starch	None	4 – 5	FDA 172.892
Retention Aid	None	0.5 – 1.0	FDA 21CFR176.170
Binders	None	1.0 - 2.0	21CFR 176.170
OBA	None	1.0 - 2.0	21CFR 176.180 &
			BGVV XXXVI

3. Hazard identification

Appearance and Odor

The product is a White, Pigment Coated paperboard, which may impart a characteristic paperboard odor.

Primary Health Hazards

No health hazards in Normal handling. As the board edges are sharp, chances of injury when moving web/Cut sheets are touched without precaution.

Primary Route(s) of Exposure

() Ingestion() Skin

4. Emergency and First Aid procedures

Ingestion

Not applicable for product in purchased form.

Eye Contact

Not applicable for product in purchase form.

Skin Contact

Product is essentially non-irritating.

Skin Absorption

None

Inhalation

Not applicable for product in purchase form.





- 5. Fire and Explosion Data
 Flash Point (Method Used)
 Not Applicable
 Extinguishing Media
 Water, CO₂, Dry Chemical.
 Autoignition Temperature
 450 572°F (232 300°C)
 Special Firefighting Procedures
 None
- Accidental Release Measures
 <u>Steps to be Taken In Case Material Is Released or Spilled</u> Not applicable for product in purchased form.

7. Handling and Storage

Precautions to be Taken In Handling and Storage

Suitable material handling equipments only to be used.

Keep in cool, dry place away from open flame.

The moisture proof packing should not be removed till the point of usage.

8. Exposure Control Measures

Personal Protective Equipment

RESPIRATORY PROTECTION

Not applicable for product in purchased form. **PROTECTIVE GLOVES** Not applicable for product in purchased form. **EYE PROTECTION** Not applicable for product in purchased form. **PROTECTIVE CLOTHING OR EQUIPMENT** Not applicable for product in purchased form.





9. Physical / Chemical Properties

Boiling Point (@ 760 mm Hg)	:NAP
Vapor Pressure (mm Hg)	:NAP
Vapor Density (air = 1; 1 atm)	:NAP
Specific Gravity (H2O = 1)	:0.6 - 0.8
Melting Point	:NAP
Evaporation Rate (Butyl acetate = 1)	:NAP
Solubility in Water	: Insoluble
рН	:NAP

10. Stability and reactivity

Safire Graphik is a stable and inert material

11.Toxicological information.

Safire Graphik confirms as per US FDA 176.170 for contact with food products.

12. Ecological Information

Product is made with ECF pulp.

13. Disposal (Environmentally safe & Recycle Confirmation)

The product is recyclable.

Waste Disposal Method

If disposed or discarded in purchased form, incineration or dry land disposal is acceptable. It is, however, the user's responsibility to determine at the time of disposal whether your product is having hazardous waste. Dispose in accordance with federal, state, and local regulations.

14. Transport Information

Not regulated as a hazardous material.





15. Regulatory information

Product should be tested for any compliance to the local regulations by the consumer before usage.

16.Other Information

Product Stewardship

ITC limited (PSPD) is an ISO 14001 certified company has a fundamental concern for all who manufacture, distribute and use its product, and for the environment in which we live. This concern is the basis of our product stewardship philosophy by which we assess the health and environmental information on our products and take appropriate steps to protect employee and public health and our environment. Our product stewardship rest with each and every individual employed with ITC Limited from the concept and research, to manufacture, use, sale and disposal of each product.

Additional Information

Date Prepared	: 28 th June 2006
Date Revised	: 1 st November 2009
Version No	: 03
Revision No	: 00
Prepared By	: Product Development, ITC limited, PSPD

User's Responsibility

The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.