(BU - FC)

Document type FINISHED PRODUCT SPECIFICATIONS

Title

RELEASE SPECIFICATIONS FOR PRINTED PAPER/ BOARD CARTONS, HINGELIDS, SHELLS, LABELS, TUCKS, DISPENSARS, DISPLAY CARTONS ETC.

Prepared by	Approved by	PAGE	REV	DATE	DOC NO.
Asad Javed	Salman Fazlur	Σ			
Manager R&D&QA	Rahman BUMFC	1(7)	16	01.07.2024	SPQA/PROD/BU-FC/01
2) Surfaced	Square				

Reviewed on (Date):	eviewed on (Date):	Reviewed on (Date):	Reviewed on (Date):
Reviewed by:	Reviewed by:	Reviewed by:	Reviewed by:
Approved on (Date):	pproved on (Date):	Approved on (Date):	Approved on (Date):
Approved by:	Approved by:	Approved by:	Approved by:

UN-GLUED CARTONS:

PARAMETER	PARAMETER TOLERANCE		CRITICAL
PRINTING FAULTS:			
Color Variation	As per shade card or approved / reference sample	Visual	Yes
Embossing Missing	No missing of key elements and /or text	Visual	Yes
 Print/Text Missing Varnish Missing Smudging / Filling In Lines / Scratches / wrinkles Stains / Spots Picking Hickies (Skin) Rubbing Offsetting 	 Not acceptable: If visible at arm's length. Acceptable: If visible on closer inspection 	Visual	Yes
REGISTRATION FAULTS:			
Print to Print	0.4 mm	Visual (scale)	Yes
Cut To Print	1.0 mm	Visual (scale)	Yes
Embossing To Print	1.0 mm	Visual (scale)	Yes
GENERAL FAULTS:			
Uncut Flaps	All lines should be completely and cleanly cut through. No tearing may occur while separating the cut line.	Manual	Yes
Creases Cut Through	The flap should not detach at creases.	Visual	Yes
Board Cracking On Creases	Board should not crack / fracture when folded at creases.	Manual	Yes
Curl	± 5.0 mm	WIQA/BU- FC/8.2.4/10	Yes
Grammage	As per job card ± 4 % for Duplex board Jobs and 5% for Bleach board Jobs	WIQA/BU- FC/8.2.4/36	Yes
Lamination (For E-flutes)	No delamination of liner.	Visual	Yes
Crease Stiffness	20 N-cm/m maximum for all creases (Std. value will be 18 Ncm/m Max. for crease 1 – 6		No

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Prepared by	Approved by	PAGE	REV	DATE	DOC NO.
Asad Javed Manager R&D&QA	Salman Fazlur Rahman BUMFC	2(7)	16	01.07.2024	SPQA/PROD/BU-FC/01
1 Suland	Funger				

	and 14 Ncm/m for crease 7).		
Varnish position *	6 mm max. from crease to edge line of varnish.	Manual	Yes
Cutting	No cutting burr, no un-even cutting, no damage due to cutting blade.	Visual	Yes
Carton damage	Cartons should not be damaged due to hammering or handling.	Visual	Yes
**Bad Smell	Smell the sample with nose , Sample should be smell free.	Manual	Yes
Dust/Burr	As per Standard Sample.	Visual	Yes
Orientation	Orientation of cartons will be check visually.	Visual	Yes

^{*} Only for PTC jobs

GLUED CARTONS:

PARAMETER			CRITICAL	
PRINTING FAULTS:				
Color Variation	As per shade card or approved / reference sample	Visual	Yes	
mbossing Missing No missing of key elements and /or text		Visual	Yes	
 Print/Text Missing Varnish Missing Smudging / Filling In Lines / Scratch/wrinkles Stains / Spots Picking Hickies (Skin) Rubbing Offsetting 	 Not acceptable: If visible at an arm's length. Acceptable: If visible on closer inspection 			
Bad Smell	Smell the sample with nose, Sample should be smell free.	Manual	Yes	
Dust/Burr	As per Standard Sample.	Visual	Yes	
Folding	Folding miss-alignment up to 2 mm Max.	Visual	Yes	
REGISTRATION FAULTS:				
Print To Print	0.4 mm	Visual (scale)	Yes	
• Cut To Print 1.0 mm		Visual (scale)	Yes	
Embossing To Print	1.0 mm	Visual (scale)	Yes	
Hot foil Registration	1.0mm	Visual (scale)	Yes	

^{**}Only for paper cups skillets

Document type
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Title RELEASE SPECIFICATIONS FOR PRINTED PAPER/ BOARD CARTONS, HINGELIDS, SHELLS, LABELS, TUCKS, DISPENSARS, DISPLAY CARTONS ETC.

Prepared by	Approved by	PAGE	REV	DATE	DOC NO.
Asad Javed Manager R&D&QA	Salman Fazlur Rahman BUMFC	3(7)	16	01.07.2024	SPQA/PROD/BU-FC/01
1 Juntand	Stuttu				

Uncut Flaps	All lines should be completely and cleanly cut through. No tearing may occur while separating the cut line.	Manual	Yes
C . Thursday	The flap should not detach at creases.	Visual	Yes
Creases Cut Through	Board should not crack / fracture when folded at creases.	Manual	Yes
Board Cracking On Creases Glueability	Strong enough with fiber picking; Not easy to open by hand; No glue missing.	Manual	Yes
Grammage	As per job card ± 5 %	WIQA/BU- FC/8.2.4/36	Yes
Lamination (For E-flute)	No delamination of liner.	Visual	Yes
Window patching	No missing of window patching and should be aligned to window.	Visual	Yes
Perforation	No missing of perforation should be easy to open.	Manual	Yes
Carton damage	Cartons should not be damaged due to hammering or handling.	Visual	Yes
Sticking	Cartons should not stick with each other due to gluing, varnish, UV coating or any other process	Visual	Yes
Dust/Burr	As per Standard Sample.	Visual	Yes
Orientation	Orientation of cartons will be check visually.	Visual	Yes
Proof Reading	For Pharma Jobs /As per CMS/Approved Samples	Visual	Yes
Tuck In	Flap shoulde tuck in when close the ctn.	Visual	Yes
Bar code readability	Bar Code shoulde readable ,Check bar code with bar code reader.	Visual	Yes
Stiffner height/Length	Stiffner Height Should be more than Cartons Height and Stiffner Should be 5 ply.	Visual	Yes
Poly packing	check and ensure material packed in poly for specific jobs.	Visual	Yes
Seepage	To check seepage of poly apply on gable top jobs.	Manual	Yes

PAPER CUPS:

PARAMETER	TOLERANCE	TEST METHOD	CRITICAL
PRINTING FAULTS:		Visual	Yes
 Print/Text Missing Varnish Missing Smudging / Filling In Lines / Scratch/wrinkles Stains / Spots Picking Hickies (Skin) 	 Not acceptable: If visible at an arm's length. Acceptable: If visible on closer inspection 	Visual	105

Prepared by Asad Javed	Approved by Salman Fazlur	PAGE	REV	DATE	DOC NO.
Manager R&D&QA	Rahman BUMFC	4(7)	16	01.07.2024	SPQA/PROD/BU-FC/01
2 Sundans	Gently				

• Offsetting			
 Rubbing 			
Bad Smell	Smell the sample with nose, Sample should be smell free.	Manual	Yes
Dust/Burr	As per Standard Sample.	Visual	Yes
Colour Variation	As per shade card or approved / reference sample	Visual	Yes
REGISTRATION FAULT:			
Print to print	0.4 mm	Visual (scale)	Yes
GENERAL FAULTS:		<u> </u>	
Grammage	As per job card ± 4 %	WIQA/BU-	Yes
		FC/8.2.4/3 6	
Seal ability	No leakage by filling water, after 10 minutes.	Manual	Yes
Lip Formation	As per approved sample	Visual	Yes
Grease/burn marks on cups	No grease/burn marks should present on cup	Visual	Yes
Bottom Folding	As per approved sample	Visual	Yes
Cup formation	As per approved sample	Visual	Yes

Prepared by	Approved by	PAGE	REV	DATE	DOC NO.
Asad Javed Manager R&D&QA	Salman Fazlur Rahman BUMFC	5(7)	16	01.07.2024	SPQA/PROD/BU-FC/01
1 Junaul	Hunty				

UN-GLUED CARTONS (FOR PAKISTAN TOBACCO CO.):

PARAMETER	PARAMETER TOLERANCE		CRITICAL	
RINTING FAULTS:				
Color Variation	As per shade card or approved / reference sample	Visual	Yes	
Embossing Missing	No missing of key elements and/or text	Visual	Yes	
Varnish Missing	'A' fault if varnish is missing. 'B' if varnish is not applied as intended rough feel. 'C' improper application of varnish	Visual	Yes	
Smudging/Filling In	If unprinted area in the design gets ink called filling in. If ink seems to be dragged down from the printed text design called smudging. 'A' fault if visible at arm length. 'B' faults if visible on closer inspection.	Visual	Yes	
Lines/Scratch / wrinkles	Not Acceptable - if visible at an arm's length.	Visual	Yes	
Stains / Spots	Acceptable - if visible on closer inspection.	Visual	Yes	
Picking/Hickies (skin)	Visual	Yes		
 Offsetting 	Pickies/Hickies is up to 1 mm. Occurs when the ink from the top of one sheet imprints the back of the sheet.	Visual	Yes	
• Rubbing	In case of varnished material ink is detached when rubbed. 'A' fault in case of varnished material ink is detached when rubbed.	Visual	Yes	
Print/text missing	'A' fault if any of the key element or color is missing.	Visual	Yes	
Bade smell	Smell the sample with nose, Sample should be smell free.			
		Manual	Yes	
REGISTRATION FAULTS:			_	
Print to Print	0.20 mm for Offset printing 0.25 mm for Rotogravure printing (Lemanic)	Visual (scale)	Yes	
Cut to Print	0.25 mm for Rotogravure printing (Lemaine) 0.9 mm side to side & 0.5 mm top to bottom for Offset	Visual (scale)	Yes	
• Cut to Fillit	printed material 0.6 mm horizontally & vertically for Rotogravure (Lemanic)			
	printed material	Visual (scale)	Yes	
Emboss to Print	0.5 mm horizontally & vertically irrespective of panel for Offset printed material			
	0.4 mm horizontally & vertically on flat bed die for			

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Prepared by Asad Javed	Approved by Salman Fazlur	PAGE	REV	DATE	DOC NO.
Manager R&D&QA	Rahman BUMFC	6(7)	16	01.07.2024	SPQA/PROD/BU-FC/01
2 Sunfair					

	Rotogravure (Lemanic) printed material		
	0.3 mm horizontally & vertically on rotary die for		
	Rotogravure (Lemanic) printed material		
GENERAL FAULTS:			
 Uncut Flaps 	All lines should be completely and cleanly cut through. No tearing may occur while separating the cut line.	Manual	Yes
Creases Cut Through	The flap should not detach at creases.	Visual	Yes
Board Cracking on Creases	Board should not crack/fracture when folded at creases.	Manual	Yes
Crease Stiffness	20 Ncm/m maximum for all creases (Std. value will be 18 Ncm/m Max. for crease No. 1 – 6 and 14 Ncm/m for crease No. 7).	WIQA/BU- FC/8.2.4/04	No
CURL /TWIST	-2 to + 3 mm maximum Where (+) indicates curl towards unprinted side and (-) indicates curl towards printed side	WIQA/BU- FC/8.2.4/10	Yes
 Varnish Position 	A Falut - more than 8mm B Fault- 7- 8 mm C Fault - up 7mm	Manual	Yes
• Grammage	As per job card ± 4 % WIQA/FC/8.2.		Yes
Solvent retention	210 mg/m² max. WIQA/8.2.		No
Moisture %	6.5 ± 0.5	WIQA/BU- FC/8.2.4/19	No
Stacking of Bundle	Bundle should be stack properly.	Visual	Yes
• ***Nicks	0.4mm	Visual(Scale)	Yes
Dust/Burr	Dust/Burr Weight in gms/2000 units(A. 0.8and over, B.0.65- 0.80,C.0.50-0.65)		Yes

*** For Roto material only.

GLUED CARTONS (FOR PAKISTAN TOBACCO CO.):

PARAMETER	TOLERANCE	TEST METHOD	CRITICAL
PRINTING FAULTS:			
Color Variation	As per shade card or approved / reference sample	Visual	Yes
Embossing Missing	No missing of key elements and/or text	Visual	Yes

Prepared by	Approved by	DAGE	2511				
Asad Javed	Salman Fazlur	PAGE	REV	DATI		DOC NO.	
Manager	Rahman						
R&D&QA	BUMFC	7(7)	16	01.07.20	SPOA/P	ROD/BU-FC/01	
1 / July				01107120	SI QIVI	KOD/BO-1 C/01	
19/Water	Hunty						
17							
Varnish Missing						1000	
Smudging/Filling In					Visual	Yes	
• Lines / Scratch		isible at an arm	'a lauath				
Wrinkles	Acceptable - if visible	e on closer insr	ection				
Stains / SpotsPicking		e on closer map	ection.				
Hickies (skin)							
Offsetting				A Parket H			
Rubbing							
Print/text missingBad Smell							
- Dad Silleli	Small the samula with	0 1					
Dust/Burr	Smell the sample with nose, Sample should be smell free. As per Standard Sample.						
	ris per standard Sam	ne.					
Folding	Folding mis-alignmen	t upto 2 mm M	lax.		Visual	Yes	
REGISTRATION FAUL	ΓS:					7.03	
Print to Print	0.20 mm for Offset pr	0.20 mm for Offset printing			Visual (scale)	Yes	
Cut to Print	0.9 mm side to side &	0.5 mm top to	bottom for Offs	et	Visual (scale)	Yes	
Endonesia (Dis	printing						
Embossing to Print	0.5 mm horizontally &	vertically irre	spective of pane	l for	Visual (scale)	Yes	
GENERAL FAULTS:	Offset printed materia	l					
Creases Cut Through	TI O I II						
Board Cracking on Crease		The flap should not detach at creases.			Visual	Yes	
Glueability				ses.	Manual	Yes	
Glue ability No glue missing / side opening of shells Glue bond strong enough with fiber pick, not easy t			ells		Manual	Yes	
	hand.	ign with liber p	ock, not easy to	open by			
Grammage	As per job card ± 4 %				Wile A fort		
	1. 15 pc. 300 card ± 4 70				WIQA/BU-	Yes	
					FC/8.2.4/36		