DURABLE PORTFOLIO

Product Data Sheet

Fasson® 3.7 Mil Smudgeproof Kimdura®/S4600/50#SCK

Spec#: 73550

Facestock

3.7 mil Smudgeproof Kimdura® is a white biaxially oriented, three-ply polypropylene film specially treated for computer imprintability. Suitable for thermal transfer printing applications with select ribbons.

Kimdura® is a registered trademark of Kimberly-Clark.

Facestock physical properties

		Imperial Value	Units	Metric Value	Units
Caliper: ASTM D1000		0.0037	inches	93.98	microns
Tensile: ASTM D882	**MD**	6,600	PSI	464	N/25 mm
	CD	16,800	PSI	1,181	N/25 mm

Adhesive

S4600 is a clear general purpose emulsion permanent adhesive featuring good initial tack and ultimate adhesion to a wide variety of substrates.

Adhesive physical properties

		Imperial Value	Units	Metric Value	Units
Type:		Emulsion Acrylic			
Caliper: ASTM D1000		0.0008	inches	20.32	microns
Standard Coat Wt:				23	g/sq m
Minimum Appl Temp:		10	F	-12	C
Service Temp Range:	**Min**	-40	F	-40	C
	Max	300	F	149	C
Loop Tack Stainless Steel: PSTC11		44.0	oz/inch	48.4	N/100 mm

Liner

50# SCK is a bleached, super calendered paper stock with very good die-cutting and matrix stripping properties. Used for standard roll-to-roll applications. Not recommended for sheeting.

Liner physical properties

		Imperial Value	Units	Metric Value	Units
Caliper: ASTM D1000		0.0032	inches	81.2800	micron
Basis Wt: TAPPI T410 * (24" x 36" 500 sheets)		54.5	lbs/ream	87.2	g/sq m
Tensile: ASTM D882	**MD**	48.0	lbs/inch	211.2	N/25 mm
	CD	26.0	lbs/inch	114.4	N/25 mm
Tear: TAPPI T414	**MD**	1.8	ounces	51.1	grams
	CD	2.1	ounces	59.6	grams

Liner Release:

TMLI 90° removal of Liner from Facestock.

Rate of Removal	Grams/2" Width
400 inches/min.	40

Total Construction Caliper (approximate):

0.0076 inches (7.6 mils; 193 microns)

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Features and Benefits

Opaque white facestock with excellent hiding power. Basis weight is approximately 84.8 g/sq.m.

- A versatile general purpose acrylic adhesive suitable for most substrates.
- Smudge resistant top coat suitable for impact and thermal transfer printing
- Flexographic, Letterpress, and Offset printable
- High tack and ultimate adhesion to most substrates
- UL and c-UL Recognized, see file MH17205 for details
- IMDG (BS5609 Maritime) Certified

Applications and Uses

- Nameplates and part labels
- Cabinet labels and wiring diagrams
- WIP and tracking labels
- Signage or graphic displays
- POP displays

Printing and Converting

This product offers a specially treated, smudge resistant surface which is impact printable. This material is also flexographic and letterpress printable, as well as suitable for thermal transfer printing applications with select ribbons. It is not recommended for web offset printing with conventional dryers where surface temperature of the facestock could exceed 180° F in the drying unit. Use caution when applying inks out to the edge of the label, particularly UV screen inks and UV cured varnishes. High shrinkage coatings can cause labels to lift off the liner or substrate. In-house testing is always recommended prior to ink/ribbon selection. This product can be diecut and stripped at high speeds on standard web-fed presses. Actual speeds will depend on ink coverage and die configuration. Because the fillers are highly abrasive, die life will be shortened. It is recommended that a die manufacturer be contacted for further suggestions. Sample labels in a variety of shapes have been dispensed and applied successfully with standard labeling systems.

RoHS/Regulation 2002/95/EU

The substances listed in article 4 lid 1 of 2002/95/EU (RoHS) are not intentionally used in this product. The concentration limits of these substances will not exceed the set maximum concentration limits as provided in the proposed amendment for 2002/95/EU.

Shelf Life

Unless specified otherwise in this document, one year when stored at 72°F at 50% RH

Note:

The technical data presented is from tests we believe to be reliable but should be considered representative or typical only and should not be used for specifications purposes. This product should be tested thoroughly under end-use conditions to ensure it meets the requirements of the specific application.

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Appendix

Performance Data:

The following technical data should be considered representative or typical only and should not be used for specification purposes.

	Initial (15 minute dwell)		72 Hours at Room Temperature		72 Hours at 120^0F		96 Hours at 150^0F (65^0C) & 80% Relative Humidity	
Surface	**oz/in**	**N/100mm**	**oz/in**	**N/100mm**	**oz/in**	**N/100mm**	**oz/in**	**N/100mm**

1. Aluminum	59.7	65.7	61.6	67.8	59	64.9	113	124.3
2. Stainless Steel	58.9	64.8	57.1	62.8	55	60.5	106.4	117
3. Polypropylene	54.7	60.2	57.8	63.6	55	60.5	110	121
4. HDPE	45.3	49.8	42.1	46.3	49.4	54.3	92.6	101.9
5. LDPE	29.1	32	35	38.5	27.5	30.3	38.7	42.6
6. ABS Plastic	57.8	63.6	62.3	68.5	53.9	59.3	94	103.4

Environmental Performance: Chemical Resistance test results

The performance results are based on 4 hour immersions at room temperature unless otherwise noted (gasoline is 1 hour). Samples were applied to stainless steel panels and conditioned for 24 hours before immersion and evaluated immediately upon removal. Adhesion measured at 180° peel.

	Adhesion to Stainless Steel		Visual	Edge
Chemical	**oz/in**	**N/100mm**	**Appearance**	**Penetration mm**
1. 70% IPA	55.7	61.3	No Change	0
2. Tide® Detergent	60	66	No Change	0
3. Engine Oil (10W30)	60	66	No Change	0
4. Water	57.4	63.1	No Change	0
5. Ammonia - pH 11	60	66	No Change	0
6. 409® Cleaner	63.4	69.7	No Change	0
7. Toluene	31	34.1	No Change	3.81
8. Brake Fluid	51.4	56.5	No Change	0
9. Reference Fuel C	34.1	37.5	No Change	2.54
10. Kerosene K1	64.6	71.1	No Change	0.25
11. Heptane	47.8	52.6	No Change	4.3

Compliance Recognition: UL, C-U

Underwriters Laboratories, Inc.

	Minimum Temperature		Maximum Temperature		
Substrates	**^{o}F**	**^{o}C**	**^{o}F**	**^{o}C**	**(I=Indoor Only I/O=Indoor & Outdoor)**
1. Stainless Steel	-40	-40	212	100	I
2. Aluminum	-40	-40	212	100	I
3. ABS Plastic	-40	-40	212	100	I
4. Alkyd Enamel	-40	-40	212	100	I
5. Galvanized Steel	-40	-40	212	100	I

6. Polycarbonate	-40	-40	212	100	I
7. and others	-40	-40	212	100	I

Recognized Ribbons: Armor "AXR7+", Iimak "SP-330", Ricoh "B110A", and others.

Tested by Underwriters Laboratories, Inc.
to meet the requirements of the Canadian Standards Association for labeling materials

	Minimum Temperature		Maximum Temperature		
Substrates	**°F**	**°C**	**°F**	**°C**	**(I=Indoor Only I/O=Indoor & Outdoor)**
1. Metals	-40	-40	212	100	I
2. Plastics Group I	-40	-40	212	100	I
3. Plastics Group II	-40	-40	176	80	I
4. Plastics Group III	-40	-40	176	80	I
5. Plastics Group IV	-40	-40	176	80	I
6. Plastics Group V	-40	-40	176	80	I
7. Plastics Group VI	-40	-40	176	80	I
8. Plastics Group VII	-40	-40	176	80	I
9. Plastics Group VIII	-40	-40	176	80	I

Recognized Ribbons: Armor "AXR7+", Iimak "SP-330", Ricoh "B110A", and others.

409® is a registered trademark of the Clorox Company
Tide® is a registered trademark of the Procter & Gamble Company

The information on compliance conditions, substrates, and printing products contained in the tables above represent a summary of recognized or acceptable conditions and printing products. Other conditions, substrates, and printing products may be recognized with this material. Please consult the specific compliance organization records or specific files for a complete listing.

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