Product Data Sheet

2 Mil Matte Chrome Polyester TC/S333/50#SCK ABC

Spec#: 72826

Facestock	Facestock physical properties						
2 Mil Matte Chrome Polyester TC is a matte finished metallic film featuring excellent tear strength, heat resistance, dimensional stability, opacity and chemical resistance. Designed for printing with most solvent and some water-based flexographic inks. Suitable for thermal transfer printing applications with select thermal transfer ribbons. Specific testing required.		Imperial Value	Units		Metric Value	Units
	Caliper: ASTM D1000	0.0020	inches		50.80	micron
	Tensile: ASTM D882 **MD**	22,700	PSI		1,596	kg/sq cm
	CD	29,800	PSI		2,095	kg/sq cm

Adhesive	Adhesive physical properties						
S333 An excellent general purpose industrial grade clear permanent acrylc adheisve. Features high initial tack to most high and medium surface energy substrates.		Imperial Value	Units		Metric Value	Units
	Type:	Emulsion Acrylic				
	Caliper: ASTM D1000	0.0008	inches		20.32	micron
	Standard Coat Wt:				26	g/sq m
	Minimum Appl Temp:	25	F		-4	C
	Service Temp Range: **Min**	-40	F		-40	C
	Max	300	F		149	C
	Loop Tack Stainless Steel: PSTC11	36.0	oz/inch		39.6	N/100 mm

Liner	Liner physical properties						
50#SCK is a bleached, super-calendered paper stock with very good diecutting and matrix stripping properties. Supplied with an Anti Block Coating ("ABC") on the backside of the liner to control adhesive and label transfer to the backside of the liner in finished, wound rolls. This liner should not be used in fanfolded label applications and is not recommended for back printability.		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		88.8	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		49.9	grams
	CD	2.1	ounces		58.2	grams

Liner Release: TMLI 90° removal of Liner from Facestock.		**Total Construction Caliper** (approximate):
Rate of Removal	**Grams/2" Width**	
400 inches/min.	40	0.0060 inches (6.0 mils; 152 micron)

Features and Benefits

- An opaque matte metallic surface finish similar to annodized aluminum with excellent hiding power and physical strength.
- Glossy clear top coat that accepts most flexographic, letterpress, and rotary screen inks.
- Very good thermal transfer printability with most wax/resin and resin based ribbons.
- Excellent chemical resistance and good outdoor durability

Applications and Uses

This product is suitable for a variety of durable labeling applications such as:

- Product identification labels
- Barcode labels
- Rating plates
- Work in process (WIP) labels
- Property identification or asset tags
- Durable goods labeling
- Recognized for UL 969 component labels. This product is UL Recognized and CSA Accepted for indoor and outdoor applications. For specific recognition or acceptance details, consult UL file MH17205 and CSA file 97198

Printing and Converting

The top coat is designed for printing by most solvent, UV cured, and water-based flexographic inks, UV cured letterpress, and rotary screen inks. Specially formulated inks are normally not necessary, however, testing is recommended prior to final ink selection. Also suitable for thermal transfer printing with select ribbons and printers. Consult product recognition files or Fasson Thermal Transfer Ribbon Guide for specific recommendations. This product can be die cut and stripped at high speeds on most web-fed presses. Sample labels in a variety of shapes have been successfully dispensed and applied 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.

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°F		
Surface	**oz/in**	**N/100mm**	**oz/in**	**N/100mm**	**oz/in**	**N/100mm**	**o**
1. Aluminum	55	61	60	66	63	70	
2. Stainless Steel	36.5	40.2	59.6	65.6	68.4	75.2	
3. ABS Plastic	51.5	56.7	62.9	69.2	60.2	66.2	
4. Polypropylene	19	21	5.4	5.9	28	31	
5. HDPE	11.2	12.3	12.9	14.2	17.2	18.9	
6. LDPE	13	14.3	28	31	12	13	

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	
Chemical	**oz/in**	**N/100mm**	**Appearance**	
1. 70% IPA	57.3	63	No Chnage	
2. Tide® Detergent	40.5	44.6	No Change	

3. Engine Oil (10W30)	46	50.6	No Change
4. Water	26.5	29.2	No Change
5. Ammonia - pH 11	0	0	No Change
6. 409® Cleaner	0.2	0.2	No Change
7. Toluene	12.4	13.6	No Change
8. Brake Fluid	48.96	53.9	No Change
9. Reference Fuel C	21.12	23.2	No Change
10. Kerosene K1	41.3	45.4	No Chnage
11. Heptane	47.5	52.3	No Change

Compliance Recognition: ☒ UL ☒ CSA ☐ C-U

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Add Record **Change Record** **Delete Record**

	Minimum Temperature		Maximum Temperature		
Substrates	**°F**	**°C**	**°F**	**°C**	**(I=Indoor Only I/ & Outdoo**
1. Aluminum	-40	-40	302	150	I/O
2. Galvanized Steel	-40	-40	302	150	I/O
3. Stainless Steel	-40	-40	302	150	I/O
4. Acrylic Paint	-40	-40	302	150	I/O
5. Epoxy Paint	-40	-40	302	150	I/O
6. Porcelain	-40	-40	302	150	I/O
7. Alkyd Enamel	-40	-40	302	150	I/O
8. Polyester Paint	-40	-40	302	150	I/O
9. Nylon	-40	-40	212	100	I/O
10. Polycarbonate	-40	-40	212	100	I/O
11. Melamine	-40	-40	212	100	I/O
12. Polystyrene	-40	-40	176	80	I/O
13. ABS Plastic	-40	-40	176	80	I/O
14. Unsat Thermoset Polyester	-40	-40	212	100	I
15. Phenolic	-40	-40	212	100	I
16. Polyphenylene Oxide	-40	-40	212	100	I

17. Polyethylene 18. and others			140	60	I

Recognized Ribbons: Armor "AXR7+", Armor "AXR600", Astro Med Inc "R-5", Astro Med "RF", Dai Nippon "R-300", Dai Nippon "R-510", Iimak "SP-410", Iimak "SP-330", Iimak "Primemark", Intermec "TMX 1500", Intermec "TMX 3200", ITW "R-91, ITW "B324", Japan Pulp & Paper "Resin 1", Japan Pulp & Paper "Sigma P", Kurz "K300", Kurz "K500", Kurz "K501", NCR "Promark 3", NCR "Resin Max", NCR "Perma Max", NCR "K3", Ricoh "B110C", Ricoh "B110CX", Ricoh "120EC", Sato Corp. "Premier 1", Sony "TR4070", Sony "TR4075", Sony "TR5070", Sony "TR6070", Sony "TR6075", Sony "Signature Series Resin", Union Chemical "US300", Zebra "5095", Zebra "5100", Zebra "5463", Zebra "Z-4100", and others.

Canadian Standards Association

Add Record | Change Record | Delete Record

	Minimum Temperature		Maximum Temperature		
Substrates	**°F**	**°C**	**°F**	**°C**	**(I=Indoor O I/O=Indoor & C**
1. Metals	-40	-40	302	150	I/O
2. Plastics Group I	-40	-40	212	100	I/O
3. Plastics Group II	-40	-40	176	80	I/O
4. Plastics Group III	-40	-40	176	80	I/O
5. Plastics Group V	-40	-40	176	80	I/O
6. Plastics Group VI	-40	-40	176	80	I/O
7. Plastics Group VII	-40	-40	176	80	I/O
8. Plastics Group VIII	-40	-40	176	80	I/O

Acceptable Ribbons: Iimak "SP-330", Japan Pulp & Paper "Resin 1", Ricoh "B110C", Sato Corp. "Premier 1", Sony "TR4070", Sony "TR5070", Sony "Signature Series Resin", Zebra "5095"

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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