

Facestock		Facestock physical properties				
4 Mil White Semi-Rigid Vinyl that is less pliable and has lower tear strength than flexible vinyl, but has improved heat resistance and dimensional stability. Good outdoor weather resistance. Normally does not require topcoating for flexographic printing. Not recommended for process printing by rotary letterpress.		Imperial Value	Units	Metric Value	Units	
	<b>Caliper:</b> ASTM D1000	0.0034	inches	86.36	micron	
	<b>Tensile:</b> ASTM D882	<b>MD</b>	4,500	PSI	316	kg/sq cm
		<b>CD</b>	4,100	PSI	288	kg/sq cm

Adhesive		Adhesive physical properties				
I-406 A clear aggressive permanent adhesive with high initial tack and ultimate adhesion to a wide variety of substrates. Fair chemical and UV resistance.		Imperial Value	Units	Metric Value	Units	
	<b>Type:</b>	Solvent Rubber				
	<b>Caliper:</b> ASTM D1000	0.001	inches	25.40	micron	
	<b>Standard Coat Wt:</b>			32	g/sq m	
	<b>Minimum Appl Temp:</b>	50	F	10	C	
	<b>Service Temp Range:</b>	<b>Min</b>	-40	F	-40	C
		<b>Max</b>	200	F	93	C
	<b>Loop Tack Stainless Steel: PSTC11</b>	128	oz/inch	140.8	N/100 mm	

Liner		Liner physical properties				
50#SCK is a bleached, super-calendered kraft paper liner 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	
	<b>Caliper:</b> ASTM D1000	0.0032	inches	81.2800	micron	
	<b>Basis Wt:</b> TAPPI T410 <small>* (24" x 36" 500 sheets)</small>	53.9	lb/ream	87.9	g/sq m	
	<b>Tensile:</b> ASTM D882	<b>MD</b>	48.0	lb/inch	211.2	N/25 mm
		<b>CD</b>	26.0	lb/inch	114.4	N/25 mm
	<b>Tear:</b> TAPPI T414	<b>MD</b>	1.8	ounces	49.9	grams
<b>CD</b>		2.0	ounces	57.9	grams	

Liner Release:		Total Construction Caliper
TMLI 90° removal of Liner from Facestock.		(approximate):
Rate of Removal	Grams/2" Width	
400 inches/min.	50	0.0076 inches

**Features and Benefits**

- High opacity white vinyl facestock with excellent hiding power
- Aggressive rubber-based adhesive with high tack and adhesion
- Battery acid resistant facestock and adhesive
- Good outdoor durability

**Applications and Uses**

- Wet cell battery labels. Meets or exceeds most OEM battery label specifications
- Graphic displays
- Nameplates

Will provide satisfactory outdoor durability for two years under normal vertical exposure conditions. Proper inks should be chosen, and labels overlaminated to insure durability of graphics. This construction complies with CONEG heavy metal content regulations.

**Printing and Converting**

Specially formulated acid-resistant inks might be required to pass enduser specifications. Consult your ink manufacturer for recommendations. Testing of printed labels is recommended prior to selecting a specific ink system. This product can be diecut and stripped at moderate speeds on standard web-fed presses. 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.

## Appendix

### Performance Data:

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

Surface	Initial (15 minute dwell)		72 Hours at Room Temperature		72 Hours at 120°F		
	oz/in	N/100mm	oz/in	N/100mm	oz/in	N/100mm	
1. Stainless Steel	163	179.3	171	188.1	141.76	155.9	9
2. Aluminum	119	131	136.4	150	152	167.2	5
3. ABS Plastic	107	117.7	122.1	134.3	123.2	135.5	3
4. Polypropylene	109	119	128	141	123	136	
5. HDPE	96	106	108	118	99	108	
6. LDPE	85	94	101	112	71	78	

### 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.

Chemical	Adhesion to Stainless Steel		Visual	
	oz/in	N/100mm	Appearance	
1. 70% IPA	49.4	54.3	No Change	
2. 409® Cleaner	48.7	53.6	No Change	
3. Engine Oil (10W30)	62.8	69.1	No Change	
4. Water	59.3	65.2	No Change	
5. Ammonia - pH 11	49.1	54	No Change	
6. 409® Cleaner	43.6	48	No Change	
7. Toluene	0	0	Fell Off	
8. Brake Fluid	53	58.3	No Change	
9. Reference Fuel C	68.3	75.2	No Change	
10. Kerosene K1	15.7	17.3	No Change	
11. Heptane	21.4	23.5	No Chnage	

**Compliance Recognition:**  UL  CSA  C-U

409® is a registered trademark of the Clorox Company  
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