3 Mil Velvet Lexan®/S730/1.5 Mil Polyester

Product Data Sheet
Spec#: 75849

Facestock	**Facestock physical properties**						
3 Mil Clear Velvet Lexan® is a 3 mil polycarbonate overlaminating film featuring a velvet textured finish. Provides superior abrasion resistance and protection to finished label constructions in indoor and outdoor environments.			**Imperial Value**	**Units**		**Metric Value**	**Units**
	Caliper: ASTM D1000		0.0030	IN		76.20	micron
	Tensile: ASTM D882	**MD**	9,000	psi		633	kg/sq cm
		CD		psi			kg/sq cm

Adhesive	**Adhesive physical properties**						
S730 is a clear solvent acrylic permanent adhesive for general purpose industrial applications. Features good intial tack and ultimate adhesion to a wide variety of substrates including medium to low surface energy plastics, and high shear for minimal cold flow or ooze characteristics.			**Imperial Value**	**Units**		**Metric Value**	**Units**
	Type:		Solvent Acrylic				
	Caliper: ASTM D1000		0.0009	inches		22.86	micron
	Standard Coat Wt:					27	g/sq m
	Minimum Appl Temp:		50	F		10	C
	Service Temp Range:	**Min**	-40	F		-40	C
		Max	300	F		149	C
	Loop Tack Stainless Steel: PSTC11		59.2	oz/inch		65.1	N/100 mm

Liner	**Liner physical properties**						
1.5 mil durable polyester liner suitable for high-speed diecutting and stripping applications. Used primarily for roll-to-roll, high-speed dispensing applications.			**Imperial Value**	**Units**		**Metric Value**	**Units**
	Caliper: ASTM D1000		0.0014	in		35.5600	microns
	Basis Wt: TAPPI T410 * (24" x 36" 500 sheets)		0.0			0.0	g/sq m
	Tensile: ASTM D882	**MD**	18,500.0	psi		1,850.0	kg/sq cm
		CD	22,500.0	psi		2,250.0	kg/sq cm
	Tear: TAPPI T414	**MD**					
		CD					

Liner Release: TMLI 90° removal of Liner from Facestock.		**Total Construction Caliper** (approximate):
Rate of Removal	**Grams/2" Width**	
400 inches/min.	40	0.0054 inches (5.4 mils)

Features and Benefits

- Velvet matte finish for non-glare surface
- Optically clear with low haze for unobstructed view of graphics underneath
- Very high abrasion and scratch resistance
- Good chemical resistance
- Smooth polyester liner imparts a smooth adhesive coat for faster wet out and clear view of printed label surface.
- UL and c-UL recognized for overlamination. See UL files MH8212 for specific recognized conditions.

Applications and Uses

Designed for overlamination of polyester or vinyl label materials to protect press printing from abrasion or chemical exposures. Suitable for use on dark flood coated backgrounds or surfaces.

Printing and Converting

Not specifically designed for printing, however, can be press printed with some inks made for films. testing is required before making final ink selections. Can be die cut with normal rotary tooling, but dies must be sharp and made for this purpose. Because this film has high strength and stiffness, it can aid matrix stripping and automatic label dispensing.

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		9
Surface	**oz/in**	**N/100mm**	**oz/in**	**N/100mm**	**oz/in**	**N/100mm**	**o**
1. Aluminum	77.1	84.8	70.2	77.2	86.2	94.8	1
2. Stainless Steel	67.7	74.5	84.8	93.3	90	99	1
3. ABS Plastic	58.9	64.8	77.8	85.6	73.3	80.6	5
4. Polypropylene	24	26.4	0	0	11	12.1	
5. HDPE	11.7	12.9	4.4	4.8	11	12.1	2
6. LDPE	11	12.1	13.2	14.5	8.8	9.7	

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	81.5	89.7	No Change	
2. Tide® Detergent	72.5	79.8	No Change	
3. Engine Oil (10W30)	76.8	84.5	No Change	
4. Water	36.7	40.4	No Change	
5. Ammonia - pH 11	29.6	32.6	No Change	
6. 409® Cleaner	38.7	42.6	No Change	
7. Toluene	33.7	37.1	No Change	
8. Brake Fluid	79.4	87.3	No Change	
9. Reference Fuel C	50.72	55.8	No Change	
10. Kerosene K1	69	75.9	No Change	
11. Heptane	60.7	66.8	No Change	

Compliance Recognition: ☒ UL ☐ CSA ☒ C-U

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Add Record | Change Record | Delete Record

Substrates	Minimum Temperature		Maximum Temperature		
	°F	°C	°F	°C	(I=Indoor O I/O=Indoor & O
1. on PET Labels	-40	-40	257	125	I/O
2. on PVC Labels	-40	-40	212	100	I/O

Recognized Ribbons: Not designed for thermal transfer printing.

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

Add Record | Change Record | Delete Record

Substrates	Minimum Temperature		Maximum Temperature		
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Avery Dennison
Fasson Roll North America
8080 Norton Parkway

Mentor, OH 44060
800-944-8511 (US & Canada)
52-55-5093-0100 (Mexico)