

PRODUCT CHARACTERISTIC SHEET and COC

PLEASE READ BEFORE USING!

Material: ARMALEX™ SELECTIVE ADHESIVE MASK

Part Nos: ALSAM81350C

General Description: This is a clear film mask used with Armalex™ reverse print polycarbonates to block out areas that you do not want permanent adhesive on, such as where windows or buttons appear. Compatible with most GMS and 3M transfer PSAs. Please read "Recommended Application Techniques" below.

Thickness:	8 mil. + .8 mil. of adhesive.	Adhesive Properties: Removable adhesive designed to work on printed and non-printed surfaces of Armalex™ or other polycarbonate materials.
Outdoor Life:	N/A	
Shelf Life:	2 years stored at 70° F & 50%RH	
Service Temperature Range:	(-40° F to 175° F)	
Minimum Application Temp.:	50° F	

Tests performed | results:

Ultimate Peel from	Average OZ/IN	Test Method	
Acrylic	2	ASTM D 903 (Modified for 72 hour dwell time)	
Glass	2.8		
Polypropylene	1.3		
Stainless Steel	1.8		
Expected Shear Room Temp (hours)	75	ASTM D 3654 Method A	a. 1 hrl dwell b. 1 sq. in. surface c. 4 lb. load
Tack (gm/sq cm)	130	ASTM D 2979	

CERTIFICATE OF CONFORMANCE (COC)

Sold to:		Lot No.:	
Buyer:		PO#	
Supplier:	Graphic Marking Systems	Supplier's Authorized Rep.:	
MFR Part No.:	Top of the page	Title:	
MFR Date:		Ship Date:	
		Date:	

Recommended Application Techniques:

Laminate with a cold pressure sensitive laminator, or by hand. Note using a laminator: Applying too much drag to the laminate can stretch the laminate when the liner is removed. A symptom of this is the "curling up" towards the laminate.

- Once Armalex is laminated with the mask, cut the pattern of buttons and windows. It is Highly Recommended to use double cuts to make weeding easy, especially on small shapes. Take care to adjust your depth and force so you don't scratch the Armalex. Please perform test cuts and make prototypes to make sure you understand the procedure.
- Once the mask is cut, strip away (weed) the areas where you want your transfer adhesive to make contact with the polycarbonate, leaving the mask where you do not want adhesive (i.e.: windows, buttons).
- Now laminate your transfer adhesive over your art and the remaining Armalex mask.
- Then load the laminated polycarbonate back in the cutter and cut the same pattern you just used to cut the mask, but add at least 2 mils depth to the 8.5 mils you used to cut the mask the first time. This will break through the liner on the PSA and trim it along the edges of the mask. At this time you can make your final perimeter/through cuts on the polycarbonate.
- Use a fingernail or pick tool to remove the masked areas (they will be raised), exposing the clean adhesive-free areas. If you can feel adhesive where it is supposed to be adhesive-free, you probably haven't removed the layers including the mask. This is common the first time around. Be careful not to scratch the polycarbonate if you are using a pick tool.

USE A 45° blade or 60° BLADE on any combination of material 8 mil or thicker.

Disclaimer:

All of the descriptive information listed above is our recommendation only. This information does not suggest or constitute a written or verbal warranty or guaranty of any kind by the manufacturer or distributor of this product. Although this material can be printed on with some solvent based printers, the surface characteristics of the material can change from roll to roll, and failure of optimal printing results are not a basis for returning the product. Purchasers of this product shall be responsible for independently determining the suitability of the material for the intended application. GMS0612 Graphic Marking Systems

Material Safety Data Sheet (MSDS)

Material Name: ARMALEX™ SELECTIVE ADHESIVE		Company: Graphic Marking Systems Address: 28457 N. Ballard Rd., Suite A1 Lake Forest, IL 60045 Phone: 847-582-9276 Fax: 847-582-9282							
Part Nos: ALSAM81350C									
Date Prepared: 9/28/2011									
General Description: Clear film mask used with Armalex™ reverse print polycarbonates to block out areas that you do not want permanent adhesive on, such as where windows or buttons appear.									
Composition and information on ingredients: Individual components of this product do not contribute to any known hazards. OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200): NONE		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">UL Recognized:</td> <td style="text-align: center; padding: 2px;">NO</td> </tr> <tr> <td style="padding: 2px;">ROHS Compliant:</td> <td style="text-align: center; padding: 2px;">YES</td> </tr> <tr> <td style="padding: 2px;">REACH Compliant:</td> <td style="text-align: center; padding: 2px;">YES</td> </tr> </table>		UL Recognized:	NO	ROHS Compliant:	YES	REACH Compliant:	YES
UL Recognized:	NO								
ROHS Compliant:	YES								
REACH Compliant:	YES								
Hazards Identification:									
<table style="width: 100%;"> <tr> <td style="width: 30%;">POTENTIAL HEALTH EFFECTS:</td> <td>None</td> </tr> <tr> <td>ACUTE:</td> <td>No significant toxic hazard. When burned may produce toxic fumes.</td> </tr> <tr> <td>CHRONIC:</td> <td>No significant toxic hazard.</td> </tr> </table> <p>None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.</p>				POTENTIAL HEALTH EFFECTS:	None	ACUTE:	No significant toxic hazard. When burned may produce toxic fumes.	CHRONIC:	No significant toxic hazard.
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ACUTE:	No significant toxic hazard. When burned may produce toxic fumes.								
CHRONIC:	No significant toxic hazard.								
First Aid Measures:		Fire Fighting Measures:							
Emergency and First Aid Procedures:		Flash Point: N/A							
ROUTES OF ENTRY:		Method Used: N/A							
Inhalation: N/A	Skin: N/A	Auto-ignition Temperature: N/A							
Eyes: N/A	Ingestion: N/A	Flamable limits in Air % by Volume: LEL: N/A, UEL: N/A							
Accidental Release Measures: N/A		Extinguishing Media: Multi-rated ABC extinguisher or water							
Handling and Storage:		Unusual Fire and Explosion Hazards: None							
No special handling required other than storing away from excessive heat sources.		Special Fire Fighting Procedures: In case of fire, use self-contained breathing apparatus and full protective equipment - all fires liberate toxic gases.							
Exposure Controls and Personal Protection:		Physical and Chemical properties:							
Respiratory Protection: None required	Vapor Pressure (mm Hg): N/A Boiling Point: N/A								
Skin Protection: No precautions required	Vapor Density (air = 1): N/A Melting Point: N/A								
Eye Protection: None required	Appearance and odor: N/A Reactivity of water: N/A								
Exposure Guidelines: None established	Specific Gravity (H 0=1): N/A Solubility in water: N/A								
Engineering Controls: None required	Stability and Reactivity:								
Toxicological Information:		Stability: N/A							
Carcinogen Status: NTP: NONE IARC: NONE OSHA: NONE		Conditions to avoid: Fire or Excessive Heat							
Ecological Information: No Data Available		Incompatibility: None							
Transport Information:		Hazardous Decomposition Products: None							
TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION: Not a hazardous material for DOT shipping.		Hazardous Polymerization: Will not occur.							
Disposal Considerations: Waste Disposal: Dispose of in accordance with Local, State and Federal regulations.		Regulatory Information:							
Other Information:		OSHA STANDARD CFR 29, PART 1910.1200: This product is considered to be an "article" under this standard.							
The information contained herein is based on the data available to Graphic Marking Systems, and is believed to be correct. However, Graphic Marking Systems makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. Graphic Marking Systems assumes no responsibility for injury from the use of the product described herein.		SARA 313 INFORMATION: This product contains no substances at or above the reporting threshold subject to the reporting requirement of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 371, based on available data.							
		CALIFORNIA PROPOSITION 65: CALIFORNIA PROPOSITION 65: CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. Warning this product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.							