

PRODUCT CHARACTERISTIC SHEET and COC

PLEASE READ BEFORE USING!

Material: X-OLAM™ 1 mil. Laminate

Part Nos: X11350CUV, X13030CUV, X15450CUV

General Description: Clear flexible fluoropolymer film with a clear permanent acrylic adhesive. Used for over-laminating when conformability and/or harsh environmental protection is necessary. X-OLAM™ is a UV blocking laminate with good graffiti resistance.

Thickness:	1.2 mil. film with 1.1 mil of adhesive	Adhesive Properties: X-OLAM laminate has a permanent acrylic pressure sensitive adhesive backed with a one-side poly coated white kraft release liner.
Outdoor Life:	7 years based on Xenon Arc tests.	
Shelf Life:	2 years stored at 70 F & 50%RH	
Service Temperature Range:	(-40° F to 152° F)	
Minimum Application Temp.:	50° F	

Tests performed | results:

Ultimate Peel from	Average OZ/IN	Test Method
Acrylic	65	ASTM D 903 (Modified for 72 hour dwell time)
Glass	67	
Stainless Steel	58	
Polypropylene	28	
Expected Shear Room Temp (hours)	100	ASTM D 3654 Method A a. 1 hrl dwell b. 1 sq. in. surface c. 4 lb. load
Tack (gm/sq cm)	300	ASTM D 2979

CERTIFICATE OF CONFORMANCE (COC)

Sold to:		Lot No.:	
Buyer:		PO#	
Supplier:	Graphic Marking Systems	MFR Part No:	Top of the page
MFR Date:		Ship Date:	
		Supplier's Authorized Rep.:	<i>Demas Garcia</i>
		Title:	Converting Manager
		Date:	

Recommended Application Techniques:

Laminate with a cold pressure sensitive laminator, not by hand. Take care not to stretch the laminate while laminating. Use minimal drag on the laminate while laminating.

GSP Software Settings:

Slightly increase the pressure and perform test cuts for optimal results.

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. Purchasers of this product shall be responsible for independently determining the suitability of the material for the intended application. GMS0418 Graphic Marking Systems

Material Safety Data Sheet (MSDS)

Material Name: X-OLAM™ 1 mil. Laminate				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: X11350CUV, X13030CUV, X15450CUV							
Date Prepared: 6/20/2018							
General Description: Clear flexible fluoropolymer film with a clear permanent acrylic adhesive. X-OLAM™ is a UV blocking laminate with good graffiti resistance.							
Composition and information on ingredients: Individual components of this product do not contribute to any known hazards. OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200): NONE				UL Rec. File No.		3TG Compliant: YES	
						ROHS Compliant: YES	
						REACH Compliant: YES	
Hazards Identification:							
POTENTIAL HEALTH EFFECTS: None							
ACUTE: No significant toxic hazard. When burned may produce toxic fumes.							
CHRONIC: No significant toxic hazard.							
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.							
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: No special handling required other than storing away from excessive heat sources.				Unusual Fire and Explosion Hazards: None			
				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 Availalbe				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: 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.				OSHA STANDARD CFR 29, PART 1910.1200: This product is considered to be an "article" under this standard.			
				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: 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 chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. This product contains up to 0.05% Toluene in the adhesive.			