

PRODUCT CHARACTERISTIC SHEET and COC

PLEASE READ BEFORE USING!

Material: K9 transfer adhesive

Part Nos: K9-13100C

General Description: Water clear pressure sensitive permanent transfer adhesive with two clear film liners. Use with compatible sub-surface printable "Convex Reverse™" vinyl. K9 adhesive is removable without residue* for up to a year from the original application. See "recommended application techniques."

Thickness: 2 mil. of transfer adhesive.

Outdoor Life: 2+ years

Shelf Life: 2 years stored at 70° F & 50%RH

Service Temperature Range: (-40° F to 250° F)

Minimum Application Temp.: 50° F

Adhesive Properties:

High performance, permanent acrylic pressure sensitive adhesive intended for laminating to sub surface printed film and bonding to high surface energy materials such as glass, polycarbonate, painted metals.

Tests performed | results:

Ultimate Peel from	Average OZ/IN	Test Method	
Acrylic	109	ASTM D 903 (Modified for 72 hour dwell time)	
Glass	84		
Polypropylene	12		
Stainless Steel	67		
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)	500	ASTM D 2979	

CERTIFICATE OF CONFORMANCE (COC)

Sold to:

Lot No.:

Buyer:

PO#

Supplier's Authorized Rep.:

Supplier:

Graphic Marking Systems

MFR Part No:

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Title:

MFR Date:

Ship Date:

Date:

Recommended Application Techniques:

When laminating: remove the thin gloss liner so the adhesive and flexible matte clear liner is laminated to the top of your printed surface. After laminating, allow 96 hrs. for K9 adhesive to cure to the film you laminated to before any attempt is made to remove it from the surface it is applied to. Otherwise it may not remove without leaving residue. Back/front slitting is possible by setting the knife depth to 3-4 mils. Little cutting pressure is needed.

GSP Software Settings:

Metallic Foils: When printing with combinations of metallic colors such as Silver directly on top of Gold (or other metallic/metallic combinations) the weakest bond will be between the two metallic colors. Therefore, when removing the decal the metallic colors may pull apart and may leave adhesive with the metallic foil color on the surface.

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: K9 transfer adhesive				Company:						
Part Nos: K9-13100C				Graphic Marking Systems						
Date Prepared: 8/25/2015				Address: 28457 N. Ballard Rd., Suite A1 Lake Forest, IL 60045						
General Description: High performance, permanent acrylic pressure sensitive adhesive intended for laminating to sub surface printed film and bonding to high surface energy materials.				Phone: 847-582-9276 Fax: 847-582-9282						
Composition and information on ingredients:						UL Recognized:		NO		
Individual components of this product do not contribute to any known hazards.						ROHS Compliant:		YES		
OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200): NONE						REACH Compliant:		NO		
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:					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:					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.					
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.					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.					