

PRODUCT CHARACTERISTIC SHEET and COC

PLEASE READ BEFORE USING!

Material: STUBBL

Part Nos: STB18520CL, STB181320CL, STB182020CL, STB182720CL, STB185420CL

General Description: This heavily textured clear flexible laminate provides anti-slip characteristics to the surface or media it is applied to. Stubbl works when it is dry or wet and therefore is recommended for watercraft and tubs as well as bikes and other recreational vehicles. This film exceeds OSHA & ADA Standards for non-slip protection on hazardous surfaces.

Thickness:	15-16 mil embossed vinyl, plus 2 mils of adhesive	Adhesive Properties: 2 mils of Permanent Acrylic psa Note: Film thickness is measured with a micrometer. Overall product thickness results can vary +/- 1.5 mils. due to "peaks" in the texture, and adhesive thickness.
Outdoor Life:	2 years	
Shelf Life:	1 years stored at 70° F & 50%RH	
Service Temperature Range:	-20° F to 175° F (-32°C to 40°C)	
Minimum Application Temp.:	50° F	

Tests performed | results:

Ultimate Peel from	Average Results	Test Method PSTC - 101
Stainless Steel	55 oz/in	15 min dwell, (66N/100mm)
Stainless Steel	75 oz/in	24 hr dwell, (82N/100mm)
Powder Coat Paint*	40 oz/in	15 min dwell, (44N/100mm)
Powder Coat Paint*	55 oz/in	24 min dwell, (60N/100mm)
Polyethylene	20 oz/in	15 min dwell, (22N/100mm)
Polyethylene	25 oz/in	24 hr dwell, (27N/100mm)
Expected Shear Room Temp (< hours)	< 5 hours	Test Method PSTC - 107 1/2" x 1/2" x 1000g
Tack (gm/sq cm)	< 5 inches	Test Method PSTC - 6 Rolling ball tack
Coefficient of Friction (Kinetic)	0.9 1 1	Test Method ASTM D1894 Dry Rubber Wet Rubber Wet Leather

CERTIFICATE OF CONFORMANCE (COC)

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

Recommended Application Techniques:

Apply to clean, dry, lubricant-free surfaces. If you intend to apply Stubbl to solvent ink jet prints, we strongly suggest that you let the prints dry for at least an hour before laminating. The end user is responsible for determining the exact "dry times" for the ink and media combination they are using.

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

Disclaimer:

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Material Safety Data Sheet (MSDS)

Material Name: STUBBL

Part Nos: STB185420CL

Date Prepared:

General Description: Heavily textured clear flexible laminate .

Company:

Graphic Marking Systems

Address: 28457 N. Ballard Rd., Suite A1
Lake Forest, IL 60045

Phone: 847-582-9276

Fax: 847-582-9282

Composition and information on ingredients:

Individual components of this product do not contribute to any known hazards.

UL Recognized:

NO

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:

Emergency and First Aid Procedures:

ROUTES OF ENTRY:

Inhalation: N/A Skin: N/A

Eyes: N/A Ingestion: N/A

Accidental Release Measures: N/A

Handling and Storage:

No special handling required other than storing away from excessive heat sources.

Exposure Controls and Personal Protection:

Respiratory Protection: None required

Skin Protection: No precautions required

Eye Protection: None applicable

Exposure Guidelines: None established

Engineering Controls: None required

Toxicological Information:

Not determined

Ecological Information: No Data Available

Transport Information:

TRANSPORTATION AND HAZARDOUS MATERIALS
DESCRIPTION: Not a hazardous material for DOT shipping.

Disposal Considerations: Waste Disposal:

Dispose of in accordance with Local, State and Federal regulations.

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.

Fire Fighting Measures:

Flash Point: N/A

Method Used: N/A

Auto-ignition Temperature N/A

Flamable limits in Air % by Volume: LEL: N/A, UEL: N/A

Extinguishing Media: Use extinguisher with class A agents or water

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.

Physical and Chemical properties: NA = Not Applicable, or Not Available

Vapor Pressure (mm Hg) N/A

Boiling Point: N/A

Vapor Density (air = 1): N/A

Melting Point: N/A

Appearance and odor: N/A

Reactivity of water: N/A

Specific Gravity (H 0=1) N/A

Solubility in water: N/A

Stability and Reactivity:

Stability: Stable

Conditions to avoid: Fire or Excessive Heat

Hazardous Decomposition By-Products:

Hydrocarbons, Carbon dioxide, Carbon monoxide, Toxic vapor, During Combustion

Hazardous Polymerization: Will not occur.

Regulatory Information:

US Federal Regulations 311/312 Hazard Categories

Fire Hazard – No Pressure hazard – No Reactivity Hazard – No

Immediate Hazard – No Delayed Hazard – No

Chemical Inventories – These products are articles as defined by TSCA regulations and are exempt from TSCA inventory listing requirements.

CALIFORNIA PROPOSITION 65: Restricted substances have not been intentionally added to this product nor are they known to be present above established limits. This product has not been specifically tested for the presence of these substances.