

B362

TAMPER-RESISTANT METALLIZED VINYL

Description

B362 is designed to fracture easily in order to show signs of product tampering and to prevent one-piece label removal. Use caution when removing from liner as material is fragile. For best tamper evidency, a 24 hour room temperature dwell is recommended.

Print technology	Thermal transfer
Material	Tamper-resistant metallized vinyl
Finish	Glossy silver
Adhesive	Acrylic

Physical data

Physical properties	Test methods	Average results
Thickness	ASTM D 1000 Total (excludes liner)	0.0025 inch (0.064 mm)
Adhesion to: -Stainless Steel -Polypropylene -Smooth ABS -Aluminum -Glass -Painted Enamel	ASTM D 1000 24 hour dwell	Label destroys upon removal
Tensile strength and elongation	ASTM D 1000	9 lbs/in (158 N/100 mm), 2%

Physical properties	Test methods	Average results
High service temperature	30 days at various temperatures	No visible effect to label at 176°F (80°C). Slight discoloration at 194°F (90°C); moderate discoloration at 212°F (100°C), but label is still functional.
Low Service Temperature	30 days at -94°F (-70°C)	No visible effect
Humidity Resistance	30 days at 100°F (37°C), 95% R.H.	No visible effect
UV Light Resistance	ASTM G155, Cycle 1, Dry 30 days in Q-Sun Xenon Test Chamber	No visible effect
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weather-Ometer®	No visible effect

Chemical resistance

Samples were printed with the R6000 Halogen Free ribbon. Samples were laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Testing was conducted at room temperature and consisted of 5 cycles of 10 minute immersions in the specified chemical followed by 30 minute recovery periods. After final immersion, samples rubbed 10 times with cotton swabs saturated in test fluids.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE		
	SUBSTRATE/ ADHESIVE	EFFECTS OF IMMERSION	COTTON SWAB RUBS
Methyl Ethyl Ketone	Label no longer adhered to surface	Label no longer adhered to surface	Label no longer adhered to surface
Toluene	Label no longer adhered to surface	Label no longer adhered to surface	Label no longer adhered to surface
Isopropyl Alcohol	No visible effect	No visible effect	No visible effect
Mineral Spirits	No visible effect	No visible effect	No visible effect
JP-8 Jet Fuel	No visible effect	No visible effect	No visible effect
SAE 20 WT Oil	No visible effect	No visible effect	No visible effect
Mil 5606 Oil	No visible effect	No visible effect	No visible effect
Gasoline	Slight adhesive ooze	No visible effect	Slight print fade
Rust Veto® 342	No visible effect	No visible effect	No visible effect
Skydrol® 500B-4	Some silver color removed	No visible effect	Complete print removal, Silver color removed
Super Agitene®	No visible effect	No visible effect	No visible effect
Deionized Water	No visible effect	No visible effect	No visible effect
3% Alconox® Detergent	No visible effect	No visible effect	No visible effect
10% Sodium Hydroxide Solution	No visible effect	No visible effect	No visible effect
10% Sulfuric Acid Solution	No visible effect	No visible effect	No visible effect

Storage

Shelf life is two years from the date of receipt for this product as long as this product is stored in its original packaging in an environment below 80° F (27° C) and 60% RH. It remains the responsibility of the user to assess the risk of using this product. We encourage customers to develop testing protocols that will qualify a product's fitness for use in their actual application.

Application

Rating and serial plates that require high performance and resistance to product tampering.

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