ANSI Z535.4 specifies performance requirements for the design, application, use and placement of safety labels and signs that are intended to identify hazards that a person may encounter while operating or servicing a variety of products.

Description:
Adhesive Backed Polyester Labels have been designed to comply with ANSI Z535.4 2002 & 2007 Product Safety Label Standards. Decals are screen printed with UV resistant inks and overlaminated with Clear Polyester to ensure a high degree of chemical, abrasion and heat resistance.

Material:

Printed Image:
Printed image is sealed between 2 layers of polyester. Polyester offers superior chemical, abrasion and temperature resistance to vinyl decals, image is screen printed using UV inks.

Adhesive:
Aggressive solvent based acrylic adhesive with excellent adhesion properties on a broad base of application substrates such as Stainless Steel, Acrylic, Glass, Coated Metals and Plastics. Backed with a layflat 90 lb. moisture stable polycoated release liner ideal for sheet-form converting.

Chemical Resistance:
Good for most chemicals

Water Resistance:
Excellent

Expected Exterior Life:
5-8 years mid-continental United States

Service Temperature:
-40°F to 302°F (-40°C to 150°C)

Minimum Applic. Temperature:
50°F (10°C)

Packaging:
All Brimar’s machinery safety decals are available in convenient packages of 5 or bulk packages of 50 decals.

Custom:
Brimar has the capability to fabricate product safety decals in practically any size and color combination with an experienced in-house graphics department.

Specification Compliance:
Machinery Safety Decal comply with ANSIZ535.4 as well as ISO 3864 Standards.
Safety Labels Compliance

Examples of Safety Labels

Product Description:
Adhesive Backed Polyester Labels have been designed to comply with ANSI Z535.4 Product Safety Label and ISO 3864-2 Standards. Labels are screen printed with UV resistant inks and over-laminated with Clear Polyester to ensure a high degree of chemical, abrasion and heat resistance.

Material:

Adhesive:
Aggressive solvent based acrylic adhesive with excellent adhesion properties on a broad base of application substrates such as Stainless Steel, Acrylic, Glass, Coated Metals and Plastics. Backed with a layflat 90 lb. moisture stable polycoated release liner ideal for sheet-form converting.

LEED Compliance:
This product is in compliance with the Standards set forth by the South Coast Air Quality Management District (SCAQMD) Rule #1168 and the Green Seal Standard, GS-36 for Commercial Adhesives pertaining to Volatile Organic Compounds (VOC). The adhesive backing on this product contains < 4.4 grams / Liter VOC.

Chemical Resistance:
Good for most chemicals

Water Resistance:
Excellent

Expected Exterior Life:
5-8 years mid-continental United States

Service Temperature:
-40°F to 302°F (-40°C to 150°C)

Minimum Application Temperature:
50°F (10°C)

- RoHS2, EU Directive 2011/65/EU, amended 2015/863/EU
We have contacted our suppliers for the raw materials used to produce the constructions on the attached list concerning their compliance with RoHS2 EU Directive 2011/65/EU, amended 2015/863/EU. The amendment spells out maximum allowable levels of specific Phthalates (BBP, DBP, DEHP, DIBP). These Phthalates are not knowingly used or intentionally added during the manufacturing process.

- REACH SVHC CHEMICAL SUBSTANCES
We have contacted our suppliers for the raw materials used to produce the above construction(s) concerning the content of the 191 REACH SVHC Chemical Substances on the Candidate List as of June 27, 2018. None of the substances are knowingly used or intentionally added during the manufacturing process.

Please be advised that we do not routinely analyze our products and it is, therefore, not possible for us to state categorically that our products are “free” from these substances. Trace amounts may be present in the environment, giving the potential for low-level contamination.
# ANSI Z535.4 Product Safety Labels

## Product Information Bulletin

64 Outwater Lane, Garfield, NJ 07026 Ph: 973-340-7889 | Fax: 973-340-7809

## ANSI Z535.4 Product Safety Labels

<table>
<thead>
<tr>
<th>Physical Properties</th>
<th>Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness (Mils [microns])</td>
<td>Film: 2.0 (51) +/- 10%</td>
<td>ASTM D3652</td>
</tr>
<tr>
<td></td>
<td>Adhesive: 0.9-1.0 (23-25) +/- 0.1 (3)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Liner: 6.9 (175) +/- 10%</td>
<td></td>
</tr>
<tr>
<td>Dimensional Stability (%)</td>
<td>No Shrinkage Observed</td>
<td>Applied Shrinkage: 24 hour dwell time on aluminum panel then 24 hours at 160°F (71°C)</td>
</tr>
</tbody>
</table>

## Adhesion Properties

<table>
<thead>
<tr>
<th>Ultimate Peel from</th>
<th>Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oz/In. (N/m)</td>
<td>60 (660)</td>
<td></td>
</tr>
<tr>
<td>68 (748)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>47 (517)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54 (594)</td>
<td></td>
<td></td>
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<tr>
<td>62 (682)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>56 (616)</td>
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<td></td>
</tr>
<tr>
<td>32 (352)</td>
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<td></td>
</tr>
<tr>
<td>49 (539)</td>
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<td></td>
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<tr>
<td>58 (648)</td>
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<tr>
<td>87 (957)</td>
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<td></td>
</tr>
<tr>
<td>15 (165)</td>
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</tr>
<tr>
<td>12 (132)</td>
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<td></td>
</tr>
<tr>
<td>54 (594)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>55 (605)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54 (594)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Expected Shear

- ASTM D3654 Method A
- a. 1hr. dwell
- b. 1sq.in. surface
- c. 4lb. load

| Room Temp (hours) | 25 |
| Tack (gm/sqcm) | 360 | ASTM D2979 |

## Temperature Ranges

- Service Temperature Range: -40°F to 302°F (-40°C to 150°C)
- Minimum Application Temperature: 50°F (10°C)

## Storage Stability

Two years when stored at 0°F (21°C) and 50% relative humidity

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**DATE:** / /  
**JOB:**

**CONTRACTOR:**

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