

Safety Signs

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Safety and Facility Signs

Safety signs are a necessary and required component for warning and communicating messages or notices to your employees, customers and the general public.

In order to provide a clear and concise message, the sign must meet a variety of requirements and standards. Selecting and placing a safety sign in your facility is more than a workplace requirement, but an opportunity to prevent costly accidents or dangerous hazards within your facility.



Top 5 things to consider when choosing safety signs

- 1. Comply with applicable regulations**
Several regulating bodies come into play when posting signs throughout your facility. Familiarize yourself with these regulations to increase safety and avoid costly fines.
- 2. Display a clear and visible message**
The header you select is directly tied to the severity of the hazard. Make sure you are communicating the correct message with the right sign headers.
- 3. Use visually intuitive pictograms**
75% of knowledge is gained through visuals. Use pictogram visuals to convey your message quickly and more accurately in multi-language environments.
- 4. Location, location, location**
Location is extremely important when it comes to sign placement. Make sure your signs are posted at eye level and in highly visible locations.
- 5. Use the right material for your application**
Brady offers a wide variety of sign materials for unique applications throughout your facility. But make sure you are choosing the right material to avoid having to replace the sign more frequently than needed.

1. Comply with applicable regulations

Check the specific sign requirements of the regulation you're complying with. Exit and fire extinguisher signs are covered by NFPA and IBC, general and chemical hazards by OSHA, traffic and parking signs by the Dept. of Transportation. Layout, text and signal words are covered by OSHA and ANSI. Below are several of the common regulations affecting signs:

Organization	Regulations
OSHA – Occupational Safety and Health Administration	OSHA 1910.37 Means of Egress, General (Exit Signs and Routes) OSHA 1910.144 Safety Color Code for Marking Physical Hazards OSHA 1910.145 Specifications for Accident Prevention Signs and Tags OSHA 1910.146 Permit-Required Confined Spaces OSHA 1910.147 Control of Hazardous Energy (Lockout/Tagout) OSHA 1910.1200 Hazard Communication (includes updated GHS standard) OSHA 1910.303 Electrical Subpart S: ((g)(2)(iii) and (h)(5)(iii)[B] – Warning Signs) OSHA 1926.200 Signs, Signals and Barricades for Construction
DOT – Department of Transportation	Hazardous Materials Warning Placards and Labels - Title 49, Code of Federal Regulations, Part 172 Subpart D–Marking, Subpart E – Labeling, Subpart F-Placarding - Title 49, Code of Federal Regulations, Parts 100-199
NFPA – National Fire Protection Association	NFPA 70: National Electrical Code NFPA 101: Life Safety Code NFPA 101B: Code for Means of Egress for Buildings and Structures NFPA 704: Standard System for the Identification of the Hazards of Materials for Emergency Response
ICC – International Code Council	IBC 2015 International Building Code IFC 2015 International Fire Code
IMO – International Maritime Organization	Resolution A.752(18) Egress and Low Level Lighting
ANSI – American National Standards Institute	ANSI Z535.1-2006 (R2011), Safety Color Code ANSI Z535.2-2011, Environmental and Facility Safety Signs ANSI Z535.3-2011, Criteria for Safety Symbols ANSI Z535.4-2011, Product Safety Signs and Labels
ISO – International Standards Organization	ISO 7010:2011 Prescribes Safety Signs for the Purposes of Accident Prevention, Fire Protection, Health Hazard Information and Emergency Evacuation. ISO 7001:2007 Graphical Symbols, Public Information Symbols
ADA – Americans with Disabilities Act	2010 ADA Standards for Accessible Design; 703 Signs Meet Occupational Health Administration (OSHA 1910.145) and ANSI (ANSI Z535) regulations and guidelines.

ANSI sign standard increases comprehension and safety

Under OSHA's Hazard Communication Standard update, organizations can now use either the American National Standard Institute (ANSI) standards from 1967-1968 (ANSI Z53.1, Z35.1 and Z35.2) or from 2011 (ANSI Z535.1, Z535.2 and Z535.5) for safety signage.



Previous standard



New standard

Redesign includes:

1. A safety alert symbol in the header
2. Three part text statement with:
 - the hazard
 - the possible consequences
 - how to avoid the hazard
3. More visual pictograms

2. Display a clear and visible message

Sign headers may seem interchangeable, but actually deliver very different messages. ANSI and OSHA specify that safety signs must indicate and define specific hazards that, without identification, may lead to accidental injury to workers, customers or the general public.

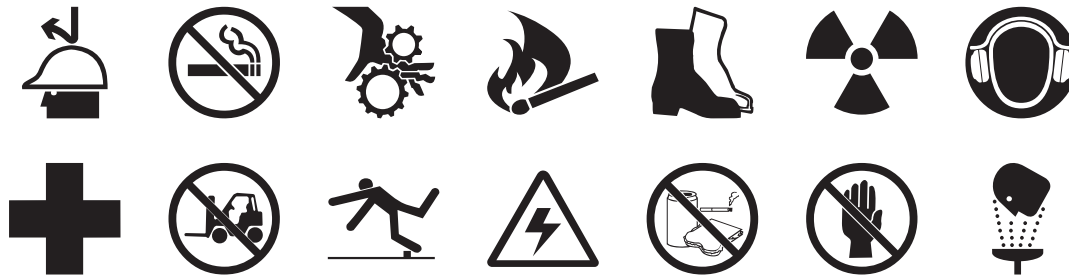
Safety Signs	Increasing Severity	DANGER imminent hazard may result in death or serious injury	<ul style="list-style-type: none">• Mark hazardous situations with a high probability of death or serious injury.• The word "Danger" should be limited to most extreme situations.• Not used for property damage hazards unless personal injury risk to this level is also involved.
		WARNING Potential hazard may result in death or serious injury	<ul style="list-style-type: none">• Indicates potential hazards which, if not avoided, could result in death or serious injury.• Appropriate for placement outside of the area or on the exterior of enclosures containing a Danger-level hazard.• Not used for property damage hazards unless personal injury risk to this level is also involved.
		CAUTION Potential hazard may result in minor or moderate injury	<ul style="list-style-type: none">• Indicates potential hazards which, if not avoided, may result in minor or moderate injury.• May be used to alert against unsafe practices that may cause property damage.
		NOTICE Statement related to safety of personnel or protection of property	<ul style="list-style-type: none">• Indicates a statement of company policy directly or indirectly related to the safety of personnel or protection of property.• Should not be associated with a hazard or hazardous situation and shall not be used in place of DANGER, WARNING or CAUTION.
		SAFETY Statement related to safe practices or safety equipment	<ul style="list-style-type: none">• Indicate general instructions relative to safe work practices or indicate the location of safety equipment (e.g. eyewash station)

3. Use visually intuitive pictograms for increased comprehension

As immigration rates increase and demographics evolve, it is essential to communicate messages across many different cultural backgrounds. Everyone within the facility should be able to understand the message being communicated.

Pictograms provide a universal way to communicate warnings to all employees and visitors, regardless of language or demographic, and can provide a better understanding of hazards. Pictograms provide an easy to understand alternative to multi-lingual signs, which can often be difficult to read.

Examples of standard ISO pictograms are below:



Safety sign letter height (ANSI Z535.2-2011)

The size and letter height used on your sign makes a difference in the readability and clarity of your message.

9.2.2 Overall size of the lettering

The overall size of the lettering shall be determined by the distance from which the sign can be safely and easily read. The message should be concise and practical. Letters shall be adequately spaced and not crowded.

9.2.3 Minimum letter height

Minimum letter height shall be one unit in height for every 150 units of safe viewing distance from the hazard alerting device for signal words and one unit in height for every 300 units viewing distance for the majority of other words contained on the word message panel. The safe viewing distance must be determined for each specific case where a safety sign is needed. The message panel text shall meet the legibility criteria at the determined safe viewing distance.

Viewing Distance	< 4 ft.	5 ft.	8 ft.	10 ft.	15 ft.	20 ft.	30 ft.	40 ft.	60 ft.	80 ft.	100 ft.	125 ft.	150 ft.	200 ft.
In favorable reading conditions minimum letter height is:	0.16 in. *	0.24 in.	0.32 in.	0.40 in.	0.60 in.	0.80 in.	1.20 in.	1.60 in.	2.40 in.	3.20 in.	4.00 in.	5.00 in.	6.00 in.	8.00 in.
In unfavorable reading conditions recommended letter height is:	0.33 in.	0.50 in.	0.66 in.	0.83 in.	1.27 in.	1.68 in.	2.51 in.	3.36 in.	5.04 in.	6.72 in.	8.40 in.	10.49 in.	12.58 in.	16.79 in.

*0.16 inch (4.1 mm) is the suggested minimum type size for use on environmental / facility safety signs.

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4. Sign locations

It is important that your sign will communicate the safety message to all of your employees, customers and the general public. The sign should be clear, concise and placed in a highly visible location. Placement of the sign is a key aspect in transmitting your message.

Keep the following in mind when choosing sign locations.

- ✓ Signs must be clear, visible and unobstructed.
- ✓ Signs must be placed to alert and inform employees of hazards. They should have sufficient time to avoid the hazard and take appropriate action.
- ✓ Lighting, maintenance and storage should be considered during the placement process to make sure the sign can be clearly illuminated.
- ✓ Inspect, maintain and keep signs clean to ensure they are in good condition.
- ✗ Signs should not be placed in moveable areas or near areas that could obstruct sign visibility.
- ✗ If the message is no longer relevant or the hazard ceases to exist, the sign should be removed as soon as possible.



Brady signs help keep your employees and visitors safe – both inside and outside your facility.

Examples of indoor locations

- Areas with restricted access
- Areas with PPE requirements
- Established emergency egress routes
- Locations with hazardous materials, electrical and confined spaces
- Around machine and equipment
- Areas prone to slips, trips and falls
- Areas with fire, emergency and first aid equipment



Examples of outdoor applications

- Control the flow of vehicle traffic
- Indicate visitor, employee and handicap parking
- Outside shipping and receiving areas
- Around storage and equipment area
- Post security policies including no smoking or prohibited weapons
- Areas of restricted access or admission including employee and visitor entrances



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5. The right material for your application

Choosing a sign material may not seem significant, but it's important to remember that different materials are equipped for different environments and applications. If you don't select the proper material, you could end up having to replace the sign more frequently than needed.

Sign Material Comparison

Material Type	Description	Protected Graphics	For Outdoor Use	Average Outdoor Durability	Chemical Resistance	Abrasion Resistance	Max. Temp	Thickness (inch)
Flexible Sign Materials								
Adhesive	B-302 High performance polyester	✓	✓	8 years	Excellent	Excellent	230° F (100° C)	.006-.010
Adhesive	B-324 BradyGlo™ photoluminescent polyester	-	-	-	Good	Good	176° F (80° C)	.008
Adhesive	B-485 Polyester film	✓	-	-	Good	Good	122° F (50° C)	.011
Adhesive	B-523 Photoluminescent polyester film	-	-	-	Good	Good	176° F (80° C)	.0096
Adhesive	B-534 Polyester floor sign with anti-skid tread	✓	-	-	Good	Good	130° F (54° C)	.011
Adhesive	B-808 BradyGlo anti-slip polyester floor sign	✓	-	-	Good	Good	158° F (70° C)	.017
Adhesive	B-819 Anti-slip vinyl floor sign	✓	-	-	Good	Good	158° F (70° C)	.012
Adhesive	B-928 Write-on vinyl with cold temp adhesive	-	✓	2 years	Good	Good	176° F (80° C)	.005
Adhesive	B-946 Self-sticking vinyl	-	✓	10 years	Fair	Good	180° F (82° C)	.004
Adhesive	B-984 Photoluminescent polyester film	-	-	-	Good	Good	176° F (80° C)	.013
Adhesive	B-997 BradyLite® reflective vinyl	-	✓	4-6 years	Good	Good	200° F (93° C)	.007
Non-Adhesive	B-101 Polycoated tagstock	-	-	-	Good	Good	158° F (70° C)	.010
Non-Adhesive	B-586 Eco-friendly paperboard	-	-	-	Good	Good	175° F (80° C)	.060
Non-Adhesive	B-811 Magnetic vinyl	-	✓	2-4 years	Good	Good	158° F (70° C)	.025
Rigid Sign Materials								
Metal	B-555 Aluminum	✓	✓	8 years	Excellent	Excellent	230° F (110° C)	.040-.090
Metal	B-959 Reflective aluminum	-	✓	4-8 years	Good	Good	175° F (80° C)	.040-.080
Metal	B-986 Photoluminescent polyester film on aluminum	-	-	-	Good	Good	175° F (80° C)	.049
Metal	B-995 Diamond-grade™ reflective aluminum	-	✓	7 years	Good	Good	212° F (100° C)	.097
Fiberglass	B-120 Premium fiberglass	✓	✓	25 years	Excellent	Excellent	193° F (90° C)	.100
Fiberglass	B-140 Polyester on fiberglass	✓	✓	8 years	Excellent	Excellent	175° F (79° C)	.070
Fiberglass	B-320 Sub surface printed lexan on fiberglass	✓	✓	8 years	Good	Good	175° F (79° C)	.070
Fiberglass	B-382 Sub surface printed polycarbonate on fiberglass	✓	✓	8 years	Good	Good	175° F (79° C)	.090
Plastic	B-1 Thermoset plastic	-	✓	8 years	Good	Good	193° F (89° C)	.062
Plastic	B-347 BradyGlo™ phosphorescent polyester on polystyrene	-	-	-	Good	Good	175° F (79° C)	.068
Plastic	B-355 BradyGlo steel encased photoluminescent plastic	-	-	-	Good	Good	122° F (50° C)	.250
Plastic	B-401 Polystyrene plastic	✓	✓	5 years	Good	Good	175° F (79° C)	.060
Plastic	B-450 Polyethylene plastic	-	-	-	Good	Good	180° F (82° C)	.055
Plastic	B-493 Plastic v-shaped signs	-	✓	2 years	Good	Good	193° F (90° C)	.100
Plastic	B-563 Eco-friendly plastic (70% post consumer waste)	-	✓	5 years	Good	Good	185° F (85° C)	.055
Plastic	B-793 Polystyrene	-	✓	1-3 years	Poor	Good	165° F (74° C)	-
Plastic	B-836 Temporary sign fluted polypropylene	-	✓	1 year	Good	Good	130° F (54° C)	.156
Plastic	B-866 ToughWash® Polypropylene	✓	-	-	Excellent	Good	175° F (80° C)	.035
Plastic	B-869 ToughWash Metal-Detectable Polypropylene	✓	-	-	Good	Good	175° F (80° C)	.098
Plastic	B-985 Photoluminescent polyester film on polystyrene	-	-	-	Good	Good	175° F (80° C)	.069

Most popular sign materials

Rigid



B-120 Premium fiberglass

B-120 Premium fiberglass (FB)

- Most durable material – will not chip, fade, rust, shatter or peel
- Graphics protected under fiberglass layer
- Excellent chemical and abrasion resistance and ideal for outdoor and harsh environments
- Up to 25 year outdoor life



B-555 Aluminum

B-555 Aluminum (AL)

- Durable for outdoor usage – withstands wind, rain, sunlight and high temperatures
- Uses UV inks and UV clear coat protection for fade resistance
- Used for parking, building and informational signs
- 5-8 year outdoor life



B-401 Plastic

B-401 Plastic (PL)

- Cost-effective durable polystyrene
- Ideal for directional, informational, department and safety applications
- Conforms to well-curved surfaces
- Up to 5 year outdoor life

Flexible



B-302 Self-sticking polyester

B-302 Self-sticking polyester (SS)

- Withstands wide temperature variations (up to 230° F)
- Protected graphics holds up to repeated spills and cleanings
- Permanent adhesive ideal for machine / equipment signs and labeling
- Up to 8 year outdoor life



B-946 Self-sticking vinyl

B-946 Self-sticking durable vinyl (SSV)

- High gloss vinyl printed with UV resistant inks
- Permanent cold temp acrylic adhesive
- Good for outdoor applications on curved surfaces
- Fair chemical and abrasion resistance
- Durable, provides up to 10 years outdoor life

Lockout Tagout Signs

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Lockout Tagout Signs

Brady lockout tagout signs are high quality, industrial-strength safety signs for identifying machinery and equipment that require lockout. These lockout tagout signs can identify energy sources, provide lockout instructions and serve as a reminder for safe lockout tagout procedures. In addition, lockout tagout signs create a safer and a more efficient workplace for employees.

Sign Selection Guide

- FB** - Premium fiberglass (B-120)
- SS** - Self-sticking polyester (B-302)
- PL** - Plastic (B-401)
- AL** - Aluminum (B-555)
- BGSS** - BradyGlo™ self-stick polyester (B-324)
- BGPL** - BradyGlo™ plastic (B-347)
- SSV** - Self-sticking vinyl (B-946)
- MAG** - Magnetic vinyl (B-811)

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69763 10" x 14" FB
85754 7" x 10" SS
85755 10" x 14" SS



127484 7" x 10" SS
127487 10" x 14" SS
127483 7" x 10" PL
127486 10" x 14" PL
127482 7" x 10" AL
127485 10" x 14" AL



127490 7" x 10" SS
127493 10" x 14" SS
127489 7" x 10" PL
127492 10" x 14" PL
127488 7" x 10" AL
127491 10" x 14" AL



60175 2.25" x 4.5" SSV



127496 7" x 10" SS
127499 10" x 14" SS
127495 7" x 10" PL
127498 10" x 14" PL
127494 7" x 10" AL
127497 10" x 14" AL



60162 2" x 2" SSV



127502 7" x 10" SS
127505 10" x 14" SS
127501 7" x 10" PL
127504 10" x 14" PL
127500 7" x 10" AL
127503 10" x 14" AL



127508 7" x 10" SS
127511 10" x 14" SS
127507 7" x 10" PL
127510 10" x 14" PL
127506 7" x 10" AL
127509 10" x 14" AL



127514 7" x 10" SS
127517 10" x 14" SS
127513 7" x 10" PL
127516 10" x 14" PL
127512 7" x 10" AL
127515 10" x 14" AL



65571 10" x 7" FB
65570 14" x 10" FB
85846 5" x 3.5" SS
85847 7" x 5" SS
85848 10" x 7" SS
85849 14" x 10" SS
22909 10" x 7" PL
22910 14" x 10" PL
42432 10" x 7" AL
42433 14" x 10" AL



60176 2.25" x 4.5" SSV



127526 7" x 10" SS
127529 10" x 14" SS
127525 7" x 10" PL
127528 10" x 14" PL
127524 7" x 10" AL
127527 10" x 14" AL



127520 7" x 10" SS
127523 10" x 14" SS
127519 7" x 10" PL
127522 10" x 14" PL
127518 7" x 10" AL
127521 10" x 14" AL



60178 2.25" x 4.5" SSV



60173 2.25" x 4.5" SSV



60172 2.25" x 4.5" SSV



127532 7" x 10" SS
127535 10" x 14" SS
127531 7" x 10" PL
127534 10" x 14" PL
127530 7" x 10" AL
127533 10" x 14" AL



122776 10" x 7" FB
65516 14" x 10" FB
85890 5" x 3.5" SS
85891 7" x 5" SS
122628 10" x 7" SS
85893 14" x 10" SS
22931 10" x 7" PL
22932 14" x 10" PL
42454 10" x 7" AL
42455 14" x 10" AL



60170 2.25" x 4.5" SSV



65575 10" x 7" FB
65576 14" x 10" FB
85911 5" x 3.5" SS
85912 7" x 5" SS
85913 10" x 7" SS
22943 10" x 7" PL



66004 5" x 3.5" MAG
66005 7" x 5" MAG



127544 7" x 10" SS
127547 10" x 14" SS
127543 7" x 10" PL
127546 10" x 14" PL
127542 7" x 10" AL
127545 10" x 14" AL



66006 5" x 3.5" MAG
66007 7" x 5" MAG



66008 5" x 3.5" MAG
66009 7" x 5" MAG
50269 7" x 10" PL

Safety Signs

Safety Sign Headers

ANSI and OSHA specify that safety signs must indicate and define specific hazards that, without identification, may lead to accidental injury to workers, customers or the general public. Standard headers and definitions are:

DANGER	WARNING	CAUTION	NOTICE	SAFETY
<ul style="list-style-type: none"> Indicates an imminently hazardous situation which if not avoided, will result in death or serious injury. Limited to most extreme situations. Not used for property damage hazards unless personal injury risk to this level is also involved. 	<ul style="list-style-type: none"> Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. Not used for property damage hazards unless personal injury risk is also involved. Appropriate for outside of the area or on the exterior of enclosures containing a danger-level hazard. 	<ul style="list-style-type: none"> Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. May be used to alert against unsafe practices that may cause property damage. 	<ul style="list-style-type: none"> Indicates a statement of company policy directly or indirectly related to the safety of personnel or protection of property. Should not be associated with a hazard or hazardous situation, and shall not be used in place of DANGER, WARNING or CAUTION. 	<ul style="list-style-type: none"> Indicate general instructions relative to safe work practices or indicate the location of safety equipment (e.g. eye wash station)

Sign Material Guide

Brady offers a sign material for virtually every application. Whether the sign is used indoors or outdoors, in mild or harsh environments, we have the material to match your application.

Material Type	Description	Protected Graphics	For Outdoor Use	Average Outdoor Durability	Chemical Resistance	Abrasion Resistance	Max. Temp	Thickness (inch)
Flexible Sign Materials								
Adhesive	B-302 High performance polyester	✓	✓	8 years	Excellent	Excellent	230° F (100° C)	.006-.010
Adhesive	B-324 BradyGlo™ photoluminescent polyester	-	-	-	Good	Good	176° F (80° C)	.008
Adhesive	B-485 Polyester film	✓	-	-	Good	Good	122° F (50° C)	.011
Adhesive	B-523 Photoluminescent polyester film	-	-	-	Good	Good	176° F (80° C)	.0096
Adhesive	B-534 Polyester floor sign with anti-skid tread	✓	-	-	Good	Good	130° F (54° C)	.011
Adhesive	B-808 BradyGlo anti-slip polyester floor sign	✓	-	-	Good	Good	158° F (70° C)	.017
Adhesive	B-819 Anti-slip vinyl floor sign	✓	-	-	Good	Good	158° F (70° C)	.012
Adhesive	B-928 Write-on vinyl with cold temp adhesive	-	✓	2 years	Good	Good	176° F (80° C)	.005
Adhesive	B-946 Self-sticking vinyl	-	✓	10 years	Fair	Good	180° F (82° C)	.004
Adhesive	B-984 Photoluminescent polyester film	-	-	-	Good	Good	175° F (80° C)	.013
Adhesive	B-997 BradyLite® reflective vinyl	-	✓	4-6 years	Good	Good	200° F (93° C)	.007
Non-Adhesive	B-101 Polycoated tagstock	-	-	-	Good	Good	158° F (70° C)	.010
Non-Adhesive	B-586 Eco-friendly paperboard	-	-	-	Good	Good	175° F (80° C)	.060
Non-Adhesive	B-811 Magnetic vinyl	-	✓	2-4 years	Good	Good	158° F (70° C)	.025
Rigid Sign Materials								
Metal	B-555 Aluminum	✓	✓	8 years	Excellent	Excellent	230° F (110° C)	.040-.090
Metal	B-959 Reflective aluminum	-	✓	4-8 years	Good	Good	175° F (80° C)	.040-.080
Metal	B-986 Photoluminescent polyester film on aluminum	-	-	-	Good	Good	175° F (80° C)	.049
Metal	B-995 Diamond-grade™ reflective aluminum	-	✓	7 years	Good	Good	212° F (100° C)	.097
Fiberglass	B-120 Premium fiberglass	✓	✓	25 years	Excellent	Excellent	193° F (90° C)	.100
Fiberglass	B-140 Polyester on fiberglass	✓	✓	8 years	Excellent	Excellent	175° F (79° C)	.070
Fiberglass	B-320 Sub surface printed lexan on fiberglass	✓	✓	8 years	Good	Good	175° F (79° C)	.070
Fiberglass	B-382 Sub surface printed polycarbonate on fiberglass	✓	✓	8 years	Good	Good	175° F (79° C)	.090
Plastic	B-1 Thermoset plastic	-	✓	8 years	Good	Good	193° F (89° C)	.062
Plastic	B-347 BradyGlo™ phosphorescent polyester on polystyrene	-	-	-	Good	Good	175° F (79° C)	.068
Plastic	B-355 BradyGlo steel encased photoluminescent plastic	-	-	-	Good	Good	122° F (50° C)	.250
Plastic	B-401 Polystyrene plastic	✓	✓	5 years	Good	Good	175° F (79° C)	.060
Plastic	B-450 Polyethylene plastic	-	-	-	Good	Good	180° F (82° C)	.055
Plastic	B-493 Plastic v-shaped signs	-	✓	2 years	Good	Good	193° F (90° C)	.100
Plastic	B-563 Eco-friendly plastic (70% post consumer waste)	-	✓	5 years	Good	Good	185° F (85° C)	.055
Plastic	B-793 Polystyrene	-	✓	1-3 years	Poor	Good	165° F (74° C)	-
Plastic	B-836 Temporary sign fluted polypropylene	-	✓	1 year	Good	Good	130° F (54° C)	.156
Plastic	B-866 ToughWash® Polypropylene	✓	-	-	Excellent	Good	175° F (80° C)	.035
Plastic	B-869 ToughWash Metal-Detectable Polypropylene	✓	-	-	Good	Good	175° F (80° C)	.098
Plastic	B-985 Photoluminescent polyester film on polystyrene	-	-	-	Good	Good	175° F (80° C)	.069