

High Temperature PermaSleeve™ Wire Markers



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Expect Performance. Demand Brady.

B-345 High Temperature PermaSleeve™ Wire Markers are specifically designed for high temperature and low outgassing applications. Made from irradiated high temperature PVDF, these sleeves are durable, reliable and highly flame retardant. After vigorous testing both in the lab and in the field, Brady's B-345 PermaSleeve Wire Markers are a proven solution to the demanding labeling needs of the aerospace, defense and mass transit industries.

Brady's B-345 High Temperature PermaSleeve Wire Markers are available in nine diameter sizes ($\frac{3}{32}$ " through $1\frac{1}{2}$ ") and five colors (white, black, yellow, blue, and pink).

B-345 PermaSleeve™ Markers Tested & Approved for:

- SAE AS-81531
- MIL-STD 202F, Method 215J
- NASA SP-R-0022A Outgassing Performance
- RoHS Compliant to 2005/618/EC



Temperature Rating

Operating Temperature -55°C to +225°C (-67°F to +437°F)
Minimum Recovery Temperature +200°C (+392°F)

The Performance You Need:

Property	Unit	AMS-DTL-23053/18 Requirement	Brady's Results
Longitudinal Change (3 minutes at 200 ± 5°C (392 ± 9°F))	Percent	+5 to -10%	Pass
Tensile Strength	psi (MPa)	3,500 psi (24.1MPa) minimum	Pass (4,205 psi, 29 MPa)
Ultimate Elongation	Percent	300% minimum	Pass (477%)
Specific Gravity	-	2.00 maximum	Pass (1.68)
Low Temperature Flexibility 4 hours at -55 ± 1°C (-67 ± 2°F)	-	No cracking	Pass (no cracking)
Heat Shock 4 hours at 275 ± 3°C (527 ± 5°F)	-	No cracking, flowing or dripping	Pass (no cracking, flowing, or dripping)
Water Absorption	Percent	0.5% maximum	Pass (0.42%)
Flammability	-	ASTM D2671	Pass
Dielectric Strength	Volts/mil (kV/mm)	400 Volts/mil (15.7 kV/mm) minimum	Pass (80kV/mm)
Volume Resistivity	ohm-cm	10 ¹¹ minimum	Pass (4.639x10)
Corrosive Effect	-	No corrosion	

Property	Unit	Testing Requirement	Brady's Results
Heat Aging	-	168 hours at 250 ± 2°C (437 ± 4°F)	Pass (no cracking, print is legible)
Print Performance	Rubs	(MIL-M-81531)	Pass (legible after 100 rubs)
	Strokes	(MIL-STD-202)	Pass (legible after 100 strokes)
Vacuum Outgassing	Percent	ASTM E 595:TML (Total Mass Loss), 1% maximum	Pass (below maximum)
	Percent	VCM (Volatile Condensable Materials), 0.1% maximum	Pass (below maximum)
Temperature Cycling	No cracking	Six ½ hour cycles at -196 ± 5°C (-321 ± 9°F) followed by 200 ± 5°C (392 ± 9°F) then bent over mandrel, no cracking, dripping or flowing.	Pass (no cracking, dripping, or flowing, print is legible)

The Products You Need: When Performance Matters Most

High Temperature PermaSleeve™ Wire Markers For Benchtop Printers:

Catalog Number	Width Inch (mm)	Height Inch (mm)	Range of Wire Diameter Inch (mm)	Number of Pieces Per Roll	Shrink Ratio	Recommended Ribbon Series Black	White
3HT-094-2-**-S	2.000 (50.8)	0.182 (4.6)	0.031 (0.6)–0.080 (2.0)	500	3-to-1	R6000	R6800
2HT-125-2-**-S	2.000 (50.8)	0.235 (6.0)	0.063 (1.2)–0.110 (2.8)	500	2-to-1	R6000	R6800
2HT-187-2-**-S	2.000 (50.8)	0.335 (8.5)	0.094 (1.6)–0.150 (3.8)	500	2-to-1	R6000	R6800
2HT-250-2-**-S	2.000 (50.8)	0.439 (11.2)	0.125 (2.4)–0.215 (5.5)	500	2-to-1	R6000	R6800
2HT-375-2-**-S	2.000 (50.8)	0.645 (16.4)	0.187 (3.2)–0.320 (8.1)	250	2-to-1	R6000	R6800
2HT-500-2-**-S	2.000 (50.8)	0.851 (21.6)	0.250 (4.8)–0.450 (11.4)	250	2-to-1	R6000	R6800
2HT-750-2-**-S	2.000 (50.8)	1.250 (31.8)	0.375 (6.6) – 0.700 (17.8)	100	2-to-1	R6000	R6800
2HT-1000-2-**-S	2.000 (50.8)	1.660 (42.2)	0.450 (11.4)–0.950 (24.1)	100	2-to-1	R6000	R6800
2HT-1500-2-**-S	2.000 (50.8)	2.433 (61.8)	0.750 (12.7)- 1.450 (36.8)	100	2-to-1	R6000	R6800

**Available colors include: White (WT), Black (BK), Yellow (YL), Blue (BL) and Pink (PK). White and Black are standard colors.

High Temperature PermaSleeve™ Wire Markers For Portable Printers:

Catalog Number	Width Inch (mm)	Height Inch (mm)	Range of Wire Diameter Inch (mm)	Number of Pieces Per Roll	Shrink Ratio	Recommended Ribbon Series Black	White
PSHT-094-175-**-S	1.765 (44.8)	0.182 (4.6)	0.031 (0.6)–0.080 (2.0)	100	3-to-1	R6000	R6800
PSHT-094-1-**-S	1.015 (25.8)	0.182 (4.6)	0.031 (0.6)–0.080 (2.0)	100	3-to-1	R6000	R6800
PSHT-125-175-**-S	1.765 (44.8)	0.235 (6.0)	0.063 (1.2)–0.110 (2.8)	100	2-to-1	R6000	R6800
PSHT-125-1-**-S	1.015 (25.8)	0.235 (6.0)	0.063 (1.2)–0.110 (2.8)	100	2-to-1	R6000	R6800
PSHT-187-175-**-S	1.765 (44.8)	0.335 (8.5)	0.094 (1.6)–0.150 (3.8)	100	2-to-1	R6000	R6800
PSHT-187-1-**-S	1.015 (25.8)	0.335 (8.5)	0.094 (1.6)–0.150 (3.8)	100	2-to-1	R6000	R6800
PSHT-250-175-**-S	1.765 (44.8)	0.439 (11.2)	0.125 (2.4)–0.215 (5.5)	100	2-to-1	R6000	R6800
PSHT-250-1-**-S	1.015 (25.8)	0.439 (11.2)	0.125 (2.4)–0.215 (5.5)	100	2-to-1	R6000	R6800
PSHT-375-175-**-S	1.765 (44.8)	0.645 (16.4)	0.187 (3.2)–0.320 (8.1)	100	2-to-1	R6000	R6800
PSHT-375-1-**-S	1.015 (25.8)	0.645 (16.4)	0.187 (3.2)–0.320 (8.1)	100	2-to-1	R6000	R6800
PSHT-500-175-**-S	1.765 (44.8)	0.851 (21.6)	0.250 (4.8)–0.450 (11.4)	100	2-to-1	R6000	R6800
PSHT-500-1-**-S	1.015 (25.8)	0.851 (21.6)	0.250 (4.8)–0.450 (11.4)	100	2-to-1	R6000	R6800
PSHT-750-175-**-S	1.765 (44.8)	1.250 (31.8)	0.375 (6.6) – 0.700 (17.8)	100	2-to-1	R6000	R6800
PSHT-750-1-**-S	1.015 (25.8)	1.250 (31.8)	0.375 (6.6) – 0.700 (17.8)	100	2-to-1	R6000	R6800
PSHT-1000-175-**-S	1.765 (44.8)	1.660 (42.2)	0.450 (11.4)–0.950 (24.1)	50	2-to-1	R6000	R6800
PSHT-1000-1-**-S	1.015 (25.8)	1.660 (42.2)	0.450 (11.4)–0.950 (24.1)	50	2-to-1	R6000	R6800

**Available colors include: White (WT), Black (BK), Yellow (YL), Blue (BL) and Pink (PK). White and Black are standard colors.

Recommended printers include: TLS®2200 Thermal Labeling System and BMP™71 Label Printer (when used with media adaptor).

The Complete Solution for High Temperature and Low-Outgassing Wire & Cable Identification

Brady products offer a complete printing solution including Brady B-345 High Temperature PermaSleeve™ Wire Markers, label design software, thermal transfer printers and printer ribbons.

- Brady B-345 High Temperature PermaSleeve™ Wire Markers
- Brady Thermal Transfer Printers
- Thermal Transfer Ribbons
- Label Creation Software



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