

Tel: 519 455·7647 I 1 800 565·3509

Product Data Bulletin: FireflyTM HPPL Signage

Dated: 3/11/21

Description:

International Name Plate Supplies Limited (INPS) FireflyTM HPPL product line is a durable "glow in the dark" safety signage design for use in passenger rail cars or similar applications. FireflyTM HPPL Signage produced with transparent polycarbonate film offers fire retardancy as well as UV and chemical resistance for use in the construction of signage for the transit industry. FireflyTM HPPL Signage is printed on the second surface providing the ultimate protection to the graphic image. The product isflexible and capable of being embossed as per ADA standards. The product is available from 0.005 up to 0.020" thick. FireflyTM HPPL Signage is compliant with American Public Transit Association Standard for Emergency Signage for Egress/Access of Passenger Rail Equipment APTA SS-PS-002-98 Rev3 and American Public Transit Association Standard for Low Location Exit PathMarking APTA SS-PS-004-99 Rev2.

- Meets or exceeds Bombardier Smoke and Toxicity SMP800C requirements
- Meets or exceeds FRA 49 CFR 238 flame and smoke requirements
- High impact resistance
- · Chemical and stain resistant
- UV resistant and non-yellowing
- Textured Low glare surface suitable for ADA signage

Applications and Uses:

The intended field of use for interior or exterior passenger rail car signage. FireflyTM HPPL signage has been successfully installed using high strength acrylic adhesive transfer tape. The adhesive chosen isat the sole discretion of the end user based on product best suited for their application.

Effective Performance Life:

The effective performance life is based on field installations and laboratory results. The effective performance life of Firefly products is expected to be in excess of 5 years from the date of purchase.



















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Physical Properties				
Property	Test	Value		
Light Transmission	ASTM 1003	90%		
Tensile Strength	ASTM D 882	8,200 psi		

Chemical Resistance

Surface Contact for 1 hour at Room Temperature

Solution Used	Value
Isopropanol	No Effect
Acetone	No Effect
Painter Thinner	No Effect
Permanent Marker	Able to wipe off with Thinner
Enamel Paint	Able to wipe off with Thinner
Window Cleaner	No Effect
Vinegar	No Effect

Flame Smoke and Toxicity Flames Spread (ASTM E 162)

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1:	2.3	4.5	10		
2:	2.3	5.0	12		
3:	2.4	4.7	11		
4:	2.4	4.2	10		
Round Aver		10			
Specified Max		35			

Smoke Generation (ASTM E 662)

	Flaming Mode			Non-Flaming Mode					
Test	1	2	3	AVG	1	2	3	AVG	Maxima
Specific Optical Density at 1.5 min	29	14	34	26	0	1	1	1	100
Specific Optical Density at 4 min	91	51	83	75	19	27	27	24	200
Maximum Specific Optical Density	168	237	255	220	121	138	129	129	
Maximum Corrected Optical Density	161	233	249	214	119	137	127	128	



















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Bombardier SMP 800C

		Flaming	Non-Flaming	Maxima
Carbon Monoxide	1.5 min	59 ppm	<10 ppm	
	4.0 min	249 ppm	<10 ppm	
	Max	1018 ppm	33 ppm	3500 ppm
Carbon Dioxide	1.5 min	1443 ppm	<50 ppm	
	4.0 min	3752 ppm	<50 ppm	
	Max	15825 ppm	241 ppm	90000 ppm
Nitrogen Oxide		3 ppm	1 ppm	100 ppm
Sulpher Oxide		<1 ppm	<1 ppm	100 ppm
Hydrogen Chloride		<2 ppm	<1 ppm	100 ppm
Hydrogen Fluoride		<2 ppm	<1 ppm	100 ppm
Hydrogen Bromide		1 ppm	1 ppm	100 ppm
Hydrogen Cyanide		9 ppm	<1 ppm	100 ppm
Time to Ignition		3 s	Did not ignite	714 V
Burning Duration		150 s		

Luminance Test Results (APTA SS-PS-002-98 Rev3.)

Source	Illuminance	Duration	Luminance after 90 min
Luminescent Lamp	10.76 lux	60.0 min	9.64 mcd/m ²











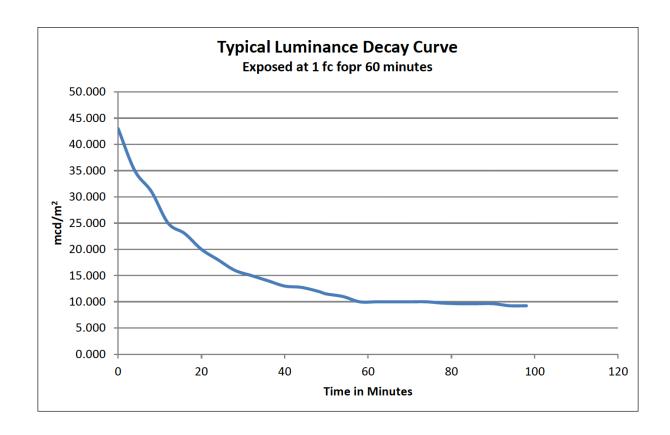








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Warranty: International Name Plate Supplies Limited ("INPS") warrants that its products are free from defects in material and workmanship for such period as is stated in the specifications and information provided by INPS in regards to the particular product, provided that INPS' only obligation under this warranty or any other warranty, expressed or implied shall be the repairing or replacing of defective product, or the issue of a reasonable credit therefore if INPS determines in its discretion that the repair or replacement would be impractical, INPS shall not be liable for any incidental or consequential damages, foreseeable or unforeseeable, caused by such defects, regardless of its having been caused by INPS' negligence.

All information and recommendations provided by INPS in regards to its products are based on the reliability of its production practices, but such information and recommendations do not constitute a warranty or guarantee.

Trademarks

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