HESKINS

ANTI-SLIP SOLUTIONS

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H6612 New Micro-Prismatic Tape Data Sheet

Observation Angle	Colour	Entrance Angle	
		-4°	+30°
0.2°	White	70	30
	Yellow	50	22
	Blue	4	1.7
	Green	9	3.5
	Red	14	6
0.5°	White	30	15
	Yellow	25	13
	Blue	2.0	0.8
	Green	4.5	2.2
	Red	7.5	3.0

Observation Angle	Colour	β1 (β2=0°) Entrance Angle		
		+5°	+30°	+40°
2°	White	5	2.5	1.5
	Yellow	3	1.5	1.0
	Blue	--	--	--
	Green	0.5	0.3	0.2
	Red	1	0.5	0.5

ISO 9001 CERTIFIED UKAS MANAGEMENT SYSTEMS British Assessment Bureau
ISO 14001 CERTIFIED UKAS MANAGEMENT SYSTEMS British Assessment Bureau

Colours and Specification Limits:

Figure A: Daytime Colour – CIE Colour Diagram

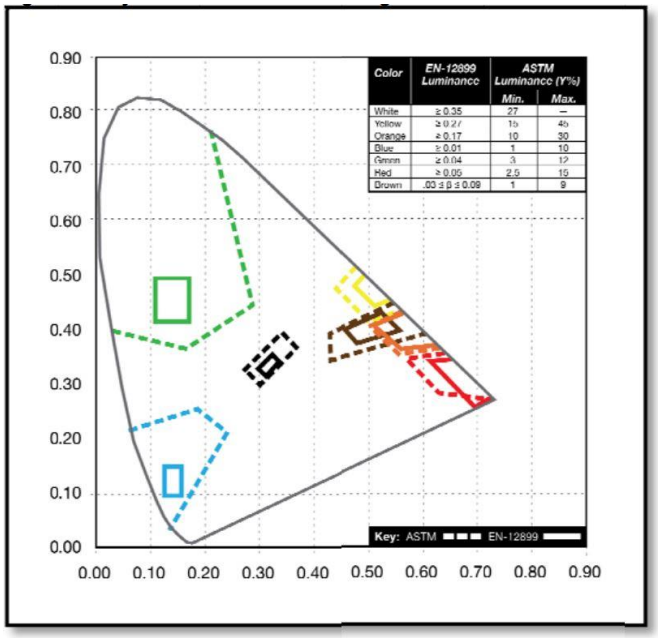
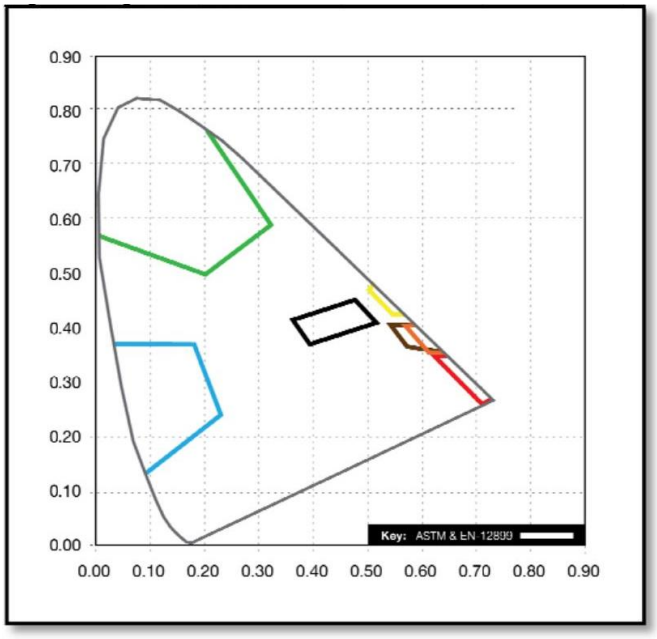


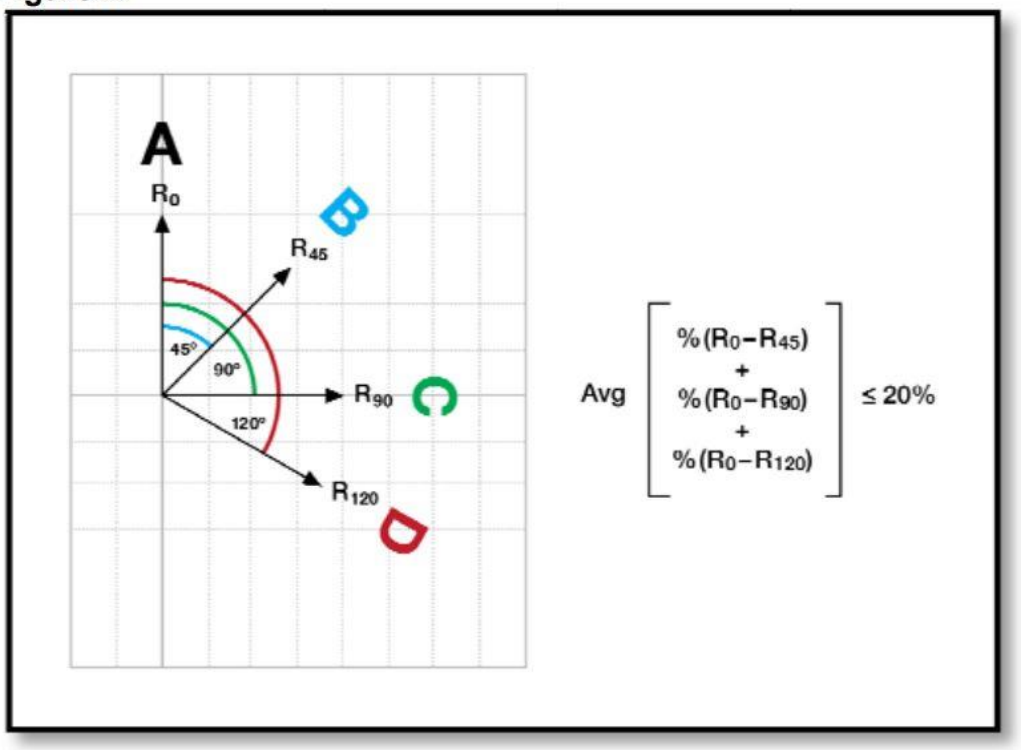
Figure B: Night time Colour



Sheeting Orientation:

The American Association of State Highway Transportation Officials (AASHTO) has recognized that some retroreflective films are rotationally (orientation) sensitive. Because this impacts sign luminance AASHTO has defined a specification to measure orientation performance. Figure C shows how the orientation sensitivity is measured. For a film to be considered rotationally insensitive, the average percent difference (shown in Figure C) must be less than or equal to 20%

Figure C



When measured for orientation sensitivity as described in AASHTO M 268-10, all Heskins LLC sheeting, both beaded and prismatic, pass the specification as rationally insensitive. Therefore, no special identification marks or other features (such as a datum mark, or distinctive seal pattern) are required to denote optimum orientation for sheeting. Because the user can expect visual uniformity regardless of orientation, no costly and cumbersome fabrication techniques are required to orient sheets, cut sign legend or border tape during sign fabrication.

Specifying agencies and sign fabricators are cautioned that some retroflective sheetings, even of the same ASTM "Type" may not provide consistent luminance for desired night visibility if the sheeting is not applied in the optimal, or in uniform orientation. Agencies and fabricators should be aware of this concern and discuss the potential effects of rotation on luminance of specific sheetings with their material supplier before beginning installation and/or fabrication.

Characteristics

Property	Value	Instructional Bulletins
Shelf-Life	1 year from date of purchase when stored at the following conditions; 18°-24°C and 50% ± 5% R.H.	#8.00
Typical Film Caliper	0.11 – 0.14 mm (114 – 140µ)	NA
Min. Application Temperature	4° C	#8.10
Service Temperature	-23°C to + 65°C	#8.00
Screen Printing	Long term durability of screen printing in combination with Heskins micro prismatic tape is warranted when used with approved inks and overlays. See Page 7.	#8.30 #8.55
Inkjet Printing	User assumes responsibility for fitness of use for this converting method. Long term durability of inkjet printing in combination with Heskins micro prismatic series is not warranted.	#8.55
Thermal Transfer Printing	Long term durability of thermal transfer printing in combination with Heskins micro prismatic is warranted. Refer to Instructional Bulletin.	#8.60

LRV Test Results

SKU (Colour)	RAL	Pantone	Av. LRV	Range
H6612R (Red)	3020	1795 U	1.3	1
H6612O (Orange)	3016	172 U	14.8	2
H6612Y (Yellow)	1026	109 U	70.8	7
H6612F (Fluorescent Yellow)	7027	3965 U	100	0
H6612V (Green)	6032	Green U	7.3	2
H6612B (Blue)	5005	3005 U	2	2
H6612W (White)	7035	7541 U	46.5	13

Standards

Country	Color	Requirement
International (US/Canada)	White, Yellow, Blue, Green, Red	ASTM D4956 Type I
Europe	White, Yellow, Blue, Green, Red	EN 12899/1 RA1
Argentina	White, Yellow, Blue, Green, Red	IRAM 10033
Japan	White, Yellow, Blue, Green, Red	JIS Z9117
Australia	White, Yellow, Blue, Green, Red	AS/NZS 1906.1 Class 100
New Zealand	White, Yellow, Blue, Green, Red	AS/NZS 1906.1 Class 100
Korea	White, Yellow, Blue, Green, Red	KS T:3507, Type I
Brazil	White, Yellow, Blue, Green, Red	ABNT 14644 Tipo I
Russia	White, Yellow, Blue, Green, Red	GOST 55290 Class I
China	White, Yellow, Blue, Green, Red	GB/T 18833 Type I
South Africa	White, Yellow, Blue, Green, Red	SANS 1519-1
International (US/Canada)	Fluorescent Yellow	ASTM D4956 Type III/IV
France	Fluorescent Yellow	NF XP9B-502 T2
Argentina	Fluorescent Yellow	IRAM 3952 Class II
Japan	Fluorescent Yellow	JIS Z9117
Australia	Fluorescent Yellow	AS/NZS 1906.1 Class 300
New Zealand	Fluorescent Yellow	AS/NZS 1906.1 Class 300
Korea	Fluorescent Yellow	KS T:3507, Type IV
Brazil	Fluorescent Yellow	ABNT NBR 14644 Tipo III
Mexico	Fluorescent Yellow	N-CMT-5-03-001 Tipo A
China	Fluorescent Yellow	GB/T 18833 Type IV
Russia	Fluorescent Yellow	GOST 52290National Class 2
Europe	Fluorescent Yellow	EN 12899/1 RA2/R2
South Africa	Fluorescent Yellow	SANS 1519-1 Class 2
International (US/Canada)	Orange	ASTM D4956 Type I
Europe	Orange	EN 12899/1 RA1
Argentina	Orange	IRAM 10033
Japan	Orange	JIS Z9117
Australia	Orange	AS/NZS 1906.1 Class 100
New Zealand	Orange	AS/NZS 1906.1 Class 100
Korea	Orange	KS T:3507, Type I
Brazil	Orange	ABNT 14644 Tipo I
Russia	Orange	GOST 55290 Class I
China	Orange	GB/T 18833 Type I
South Africa	Orange	SANS 1519-1

Tests are for reference only.

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