HESKINS
ANTI-SLIP SOLUTIONS

mail@heskins.com www.heskins.com

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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

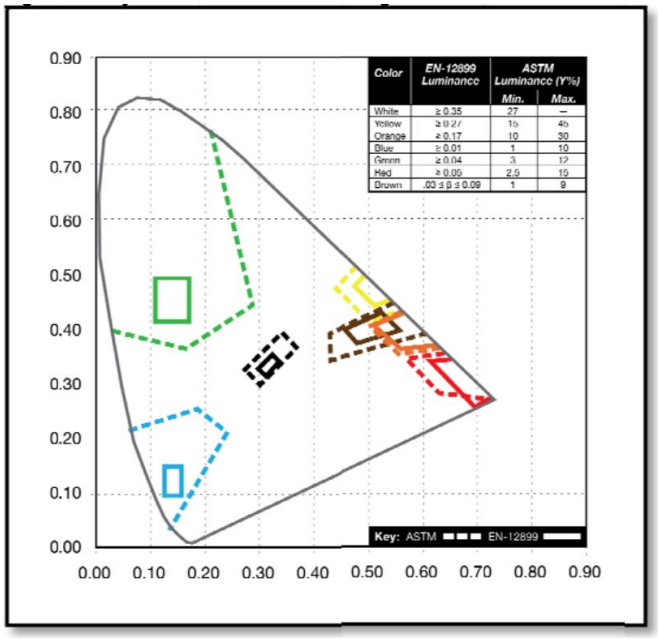
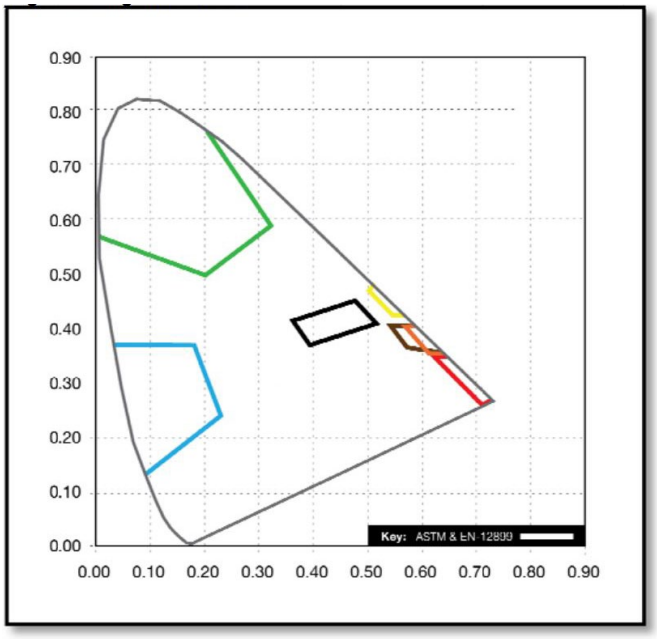


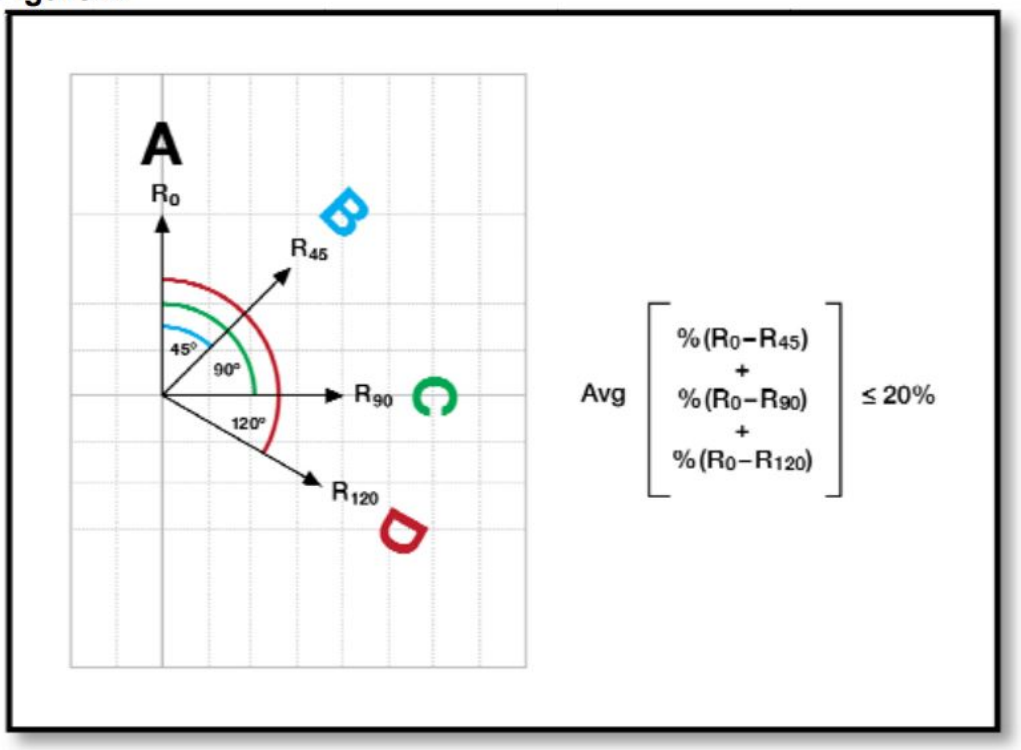
Figure B: Night time Colour



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

Tests are for reference only.

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