

# A100

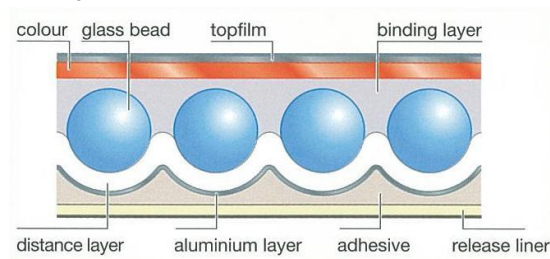
## REFLECTID

### Description

A100 ReflectID is all-weather, bright, durable, flexible and impact resistant sheeting consisting of glass beads embedded with a transparent film. It is pre-coated with a permanent pressure sensitive adhesive protected by easily removable liner that will provide a secure bond for many years. If applied properly, A100 sheeting and inks will result in a bright label.

### Physical data

The minimum retroreflective values of A100 sheeting are given in Table-1 below. Measurements shall be conducted in accordance with ISO 7591 (Road vehicles - Retro-reflective registration plates for motor vehicles and trailers - Specification). The reflective value of A100 series sheeting, totally wet by rain, will not be reduced by more than 10% of the values specified in Table-1 below. Rainfall performance measurement shall be conducted at 0°20' observation and 5° entrance angle in accordance with ISO 7591.



**Table 1** Minimum values of retroreflectivity

Color	O.A	Entrance angle			Max.
		5°	30°	40°	
White	0°12'	121	48	x	250
	0°20'	92	x	x	
	0°05'	49	x	x	
Yellow	0°12'	88	38	x	250
	0°20'	71	x	x	
	0°05'	40	x	x	

**Table 2** Typical value of retroreflectivity

Color & Item no.	O.A	Entrance angle		
		5°	30°	40°
White	0°12'	82	36	20
	0°20'	66	30	20
	1°30'	12	9.2	6.5
Yellow	0°12'	58	28	12
	0°20'	43	25	16
	0°30'	8.9	7.1	4.9

**O.A.:** Observation Angle

**Table 3** Color limits (Daytime)

Color	1		2		3		4		Luminance factor
	x	y	x	y	x	y	x	Y	
White	0.355	0.355	0.305	0.305	0.285	0.325	0.335	0.375	≥ 0.35
Yellow	0.465	0.534	0.427	0.483	0.487	0.423	0.545	0.454	≥ 0.27

Color coordinates of A100 White and A100 Yellow conforming to the color limits of Table-3 above.

**Table 4** Physical Properties of the sheeting

Properties	Test Method	Results
Average thickness	Micrometer	160 μ m
Average gloss	Gloss meter	85 at 60°
Tensile strength	Instron tester	26.4 N/25 mm width
Average elongation	Instron tester	169%
Min. Application temperature	Flat en smooth surface	15°C
Max. Application temperature	Flat en smooth surface	25°C
Service temperature range	After applied on the surface	-30°C to 80°C

### Effective performance life

Based on numerous tests and past experience;

- 5 to 7 years
- +10 years using L2 or L3 transparent protective UV laminate

### Storage

Retroreflective sheeting, inks, thinner, etc. should be stored between 15°C to 25°C, ideally with a relative humidity of 30% to 60%, and out of direct sunlight. Do not leave full or open rolls of material resting on hard surfaces; this may cause bruising to the retro reflective material, which may not be seen until exposed to a light source.

### Certificates

#### REACH

Please contact Altec for the latest REACH document available.

#### RoHS

Please contact Altec for the latest RoHS document available.

#### Disclaimer

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