

CURVE Tank Trailer Curved DOT Reflective Tape Data Sheet

Daytime Color (x,y,Y)

Conspicuity tape series meets the applicable daytime color requirements for FMVSS 108, DOT C-2, and ASTM D4956:2013. The four pairs of retroreflection shall be determined in accordance with ASTM E810, and per ASTM E810 the values of all rotation are determined the Ra.

Color	1		2		3		4		Daytime luminance limit (Y)
	X	Y	X	Y	X	Y	X	Y	
White	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329	27
Red	0.648	0.351	0.735	0.265	0.629	0.281	0.565	0.346	.5 15

Retroreflective Performance

The values below are minimum coefficients of retroreflection expressed in candelas per lux per squaremeter (cd/lux/m²)

Item	Observation Angles	Entrance angles	R
White	0.2in	-4	250
		30	250
		40	60
White	0.49in	-4	65
		30	65
		40	15
Red	0.2in	-4	60
		30	60
		40	15
Red	0.49in	-4	10
		30	10
		40	4



The following technical information should be considered typical only and should not be used for specification purposes.

Property	FMVSS 108 Requirement	DOT C-2 conspicuity tape
Thickness	NA	Sealing Type – 0.0159~0.0175in Metallizing Type – 0.0118~0.0134in
Gloss ASTM D523 27°	NA	100
Dimensional stability ASTM D4956	Less than 0.13in change on 9in x 9in panel	Pass
Flexibility Wrap around 3.2mm mandrel 0°C	NO Cracking	Pass
Peel adhesion, lbf/in	7.108	180° FINAT FTM I
Tensile strength, lbf/in	172.431	Lloyd, 11.24 lbf load cell
Min. Application temperature	NA	59°F
High pressure wash test 45° angle, 83bar, 3in distance	NA	Pass
Adhesion 90° hanging weight ASTM D4956	Less than 2in movement	Pass
Peel adhesion 120in/minute, 130° peel angle	NA	Degreased aluminum: 5.255 lb/in
Chemical resistance	NA	Not effected by toluene, #2 diesel fuel, TSP detergent, xylene
Corrosion resistance ASTM B-117 5% Salt spray for 1000 hours	NA	No effect
Impact resistance	No damage outside impact	Pass
Resistance to chemicals (months)	8	PSTC-35
Resistance to motor oil	Excellent	PSTC-35
Life (months) Room temperature 8.2ft – 0.99 lb, 0.645in tip	12 to 24	PSTC-9
Impact resistance Cold temperature 4.9ft -0.99 lb, 0.645in tip at -68°F	No damage outside impact	Pass



LRV Test Results

SKU (Color)	RAL	Pantone	Av. LRV	Range
H6602R (Red)	3020	187 U	15.2	10.4
H6602Y (Yellow)	1032	7406 U	43.7	12.6
H6602W (White)	7004	422 U	38.9	16.1
DOT2_RW66 (Red / White)	3020 / 7004	187 U / 422 U	15.2 / 38.9	16.1 / 10.4

All the above data is for reference only.

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