

Heskins DOT C2 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	Min	Max
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	2.5	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	5mm	-4	250
		30	250
		40	60
	12.5mm	-4	65
		30	65
		40	15
Red	5mm	-4	60
		30	60
		40	15
	12.5mm	-4	10
		30	10
		40	4





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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 – 405~445um Metallizing Type – 300~340um
Gloss ASTM D523 27°	NA	100
Dimensional stability ASTM D4956	Less than 3.2mm change on 230mm x 230mm panel	Pass
Flexibility Wrap around 3.2mm mandrel 0°C	NO Cracking	Pass
Peel adhesion, N/25mm	31.1	180° FINAT FTM I
Tensile strength, N/25mm	189.6	Lloyd, 50N load cell
Min. Application temperature	NA	15°C
High pressure wash test 45° angle, 83bar, 75mm distance	NA	Pass
Adhesion 90° hanging weight ASTM D4956	Less than 50mm movement	Pass
Peel adhesion 305mm/minute, 130° peel angle	NA	Degreased aluminum: 0.94kg/cm
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





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Room temperature 2.5m- 0.45kg, 16.5mm tip		
Impact resistance Cold temperature 1.5m- 0.45kg, 16.5mm tip at - 20°C	No damage outside impact	Pass

All the above data is for reference only.

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