

DATA-SHEET RETROREFLECTIVE SEW-ON TAPE HIGH INTENSITY D6101

Backing: 65% polyester, 35% cotton

Roll size: width: 1.0 meter --1.27 meters; length:50 meters

Description: used for Reflective garments, sport cloth, gloves, caps, shoes, bags.etc

Qualified: EN471, ANSI 107, AS/NZS 4602, equal to 3M 8910

Color:Sliver

Technology Data:

1>. Retroreflective Performance (Initial)

Measured reflectivity coefficient in CD/ LUX. M2

Product	D6101	D6101						
Observation Angle	Entrance Angle (ε₁= 0°)				Entrance Angle (ε₂= 90°)			
	5°	20°	30°	40°	5°	20°	30°	40°
12′	480.2	456.9	447.5	360.4	467.8	454.2	444.5	332.5
20′	318.2	309.3	295.5	240.7	317.8	314.3	305.3	255.8
1°	35.3	34.8	33.1	22.7	29.9	331.3	30.6	24.7
1°30′	18.3	16.9	12.8	14.1	16.2	15.2	13.5	14.9

2>. Folding in Minus 20 degree

After folding according to EN471, ANSI107 standard at -20 degree

Post Exposure Coefficient of Retroreflection (R _A) – cd/(lx*m ₂)							
Observation Angle =12'							
Entrance Angle = 5°							
Product	ε ₁ = 0°	$\epsilon_1 = 0^{\circ}$ $\epsilon_2 = 90^{\circ}$					
	Measured Required Measured Required						
D6101	101 479.4 100 457.1 75						

3>. Exposure to temperature Variation

12 hours @ 50° C 20 hours @ -30° C 2 hours @ 20° C After testing 3 times, Reflectivity is as below:

Post Exposure Coefficient of Retroreflection (R _A) – cd/(lx*m ₂)							
Observation Angle =12´							
Entrance Angle = 5°							
Product	ε ₁ = 0°		ε ₂ = 90°				
	Measured	Required	Measured	Required			
D6101	474.2	474.2 100 464.6 75					

4>. Washing @ 60°C

After 25 washing, the Reflectivity can keep 80% of initial, After 50 washing cycles, all results Meet EN471 class 2 & ANSI107 class 2

Number of Wash Cycles: 50 times							
Post Exposu	Post Exposure Coefficient of Retroreflection (R _A) – cd/(lx*m ₂)						
Observation	Observation Angle =12'						
Entrance An	Entrance Angle = 5°						
Product	$\epsilon_1 = 0^{\circ}$ $\epsilon_2 = 90^{\circ}$						
Measured Required Measured Required							
D6101	135.5	100	107.6	75			

5>.Dry cleaning: 5 times

Number of Wash Cycles: 5							
Post Exposure Coefficient of Retroreflection (RA) – cd/(Ix*m2)							
Observation	Observation Angle =12'						
Entrance Angle = 5°							
Product	$\epsilon_1 = 0^{\circ}$ $\epsilon_2 = 90^{\circ}$						
Measured Required Measured Required							
D6101	401.5	100	400.2	75			

6>.Abrasion

According to ANSI/ISEA 107-2004 9.4.1 &EN530 1994 (Wool Abrade /5000 cycles/9kpa)

Post Exposure Coefficient of Retroreflection (R _A) – cd/(lx*m ₂)						
Observation Angle =12'						
Entrance Angle = 5°						
Product	ε ₁ = 0°		ε ₂ = 90°			
	Measured	Required	Measured	Required		
D6101	411.9 100 408.2 75					

7>.Flexing

According to ANSI/ISEA 107-2004 9.4.2 & ISO7894:1995 method A(7500 cycles)

Post Exposure Coefficient of Retroreflection (R _A) – cd/(lx*m ₂)						
Observation Angle =12'						
Entrance Angle = 5°						
Product	ε ₁ = 0°		ε ₂ = 90°			
	Measured	Required	Measured	Required		
D6101	436.3 100 432.2 75					