



GRAY HEAT TRANSFER REFLECTIVE FILM D4102



Item Code: D4102

Color: Gray

Fabric Backing: polyester

Thickness: 150 μ ±10 μ

Weight: 265±10 g/m²

Standard Size: 130cm x 50m, 5cm x 100m, 2.5cm x 100m, 2cm x 100m, other size.

Composition: 44% glass beads, 25% Resin, 21% polyester, 10% others.

RETRO-REFLECTIVE PERFORMANCE

Minimum Initial coefficient of retro-reflection in cd/lux·m² and testing results by TUV, SATRA or CALCOAST

| Entrance angle Observation angle | 5° | | 20° | | 30° | | 40° | |
|-------------------------------------|----------|---------|----------|---------|----------|---------|----------|---------|
| | Class II | Results | Class II | Results | Class II | Results | Class II | Results |
| 12' | 330 | 500 | 290 | 450 | 180 | 400 | 65 | 390 |
| 20' | 250 | 325 | 200 | 322 | 170 | 328 | 60 | 300 |
| 1° | 25 | 55 | 15 | 54 | 12 | 46 | 10 | 40 |
| 1°30' | 10 | 43 | 7 | 36 | 5 | 35 | 4 | 29 |

Retro-reflective performance after test exposure

| Coefficient(cd/lux·m ²) | | Standard Requires : cd/lux·m ² |
|-------------------------------------|-----|--|
| After Abrasion | 403 | ANSI/ISEA107-2010 9.4.1; EN530:1995 Method 2(wool Abrade / 5000cycles / 9kpa) |
| After flexing | 401 | ANSI/ISEA107-2010 9.4.2; ISO 7854: 1997 Method A(7500Cycles) |
| After folding at cold temperature | 382 | ANSI/ISEA 107-2010 9.4.3; ISO 4675:1990(-20°C) |
| After temperature variation | 359 | ANSI/ISEA 107-2010 9.4.4 12 Hours, 50°C/20 Hours, -30°C/ Minimum 2 Hours, 20°C |
| After washing | 340 | ANSI/ISEA 107-2010 9.4.5.2 ISO 6330 Method 2A—30 cycles |
| After dry cleaning | 378 | ANSI/ISEA 107-2010 9.4.5.3 ISO 3175:1998 Method 9.1—5 cycles |



| Certificates | Certificate Specifications |
|-----------------------|--|
| OEKO-Tex standard 100 | Class I (Articles within direct contact to skin) |
| EN ISO 20471 | Class II |
| ANSI/ISEA 107 | CLASS I & CLASS II |

DOMESTIC WASHING

Washer: Standard House washing machine
 Temperature: 40-60°C
 Detergent: Neutral detergent (PH : 7)
 Ironing: Not recommended
 Bleaching: Not recommended

INDUSTRIAL WASH

Industrial wash: Not recommended
 Tunnel Drying: Not recommended
 Tumble dry: Not recommended
 Ironing: Not Recommended

APPLICATION INSTRUCTIONS (Important)

1. Heat Machine to 130~150°C depending on the fabric you should print on
2. Remove plastic layer under adhesive side, place the heat transfer film on the fabric (substrate) adhesive side down.
3. Apply heat and pressure under about 3kgs weight for 3~5 seconds. Remove the plastic layer on the reflective surface after cold. If necessary, pls heat press the film again after removing the plastic layer.

STORAGE:

Store in a cool place free of moisture, dry area and use within 1 year of receipt. Rolls should be stored in their original cartons, whilst partially used rolls should be returned to their carton. The retro-reflective performance of all reflective materials is affected by soiling. Any kind of dirt, such as liquid chemicals, greases and alike will reduce brightness in the area of contamination. For specific guidance contact your DM representative

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