

Anti-Reflection Film

Optical film that reduces reflection of light on a display's surface and improves display's anti-shattering properties

Product Name AR100-T081V-JD AR100-T082V-AD AR100-T062V-BD

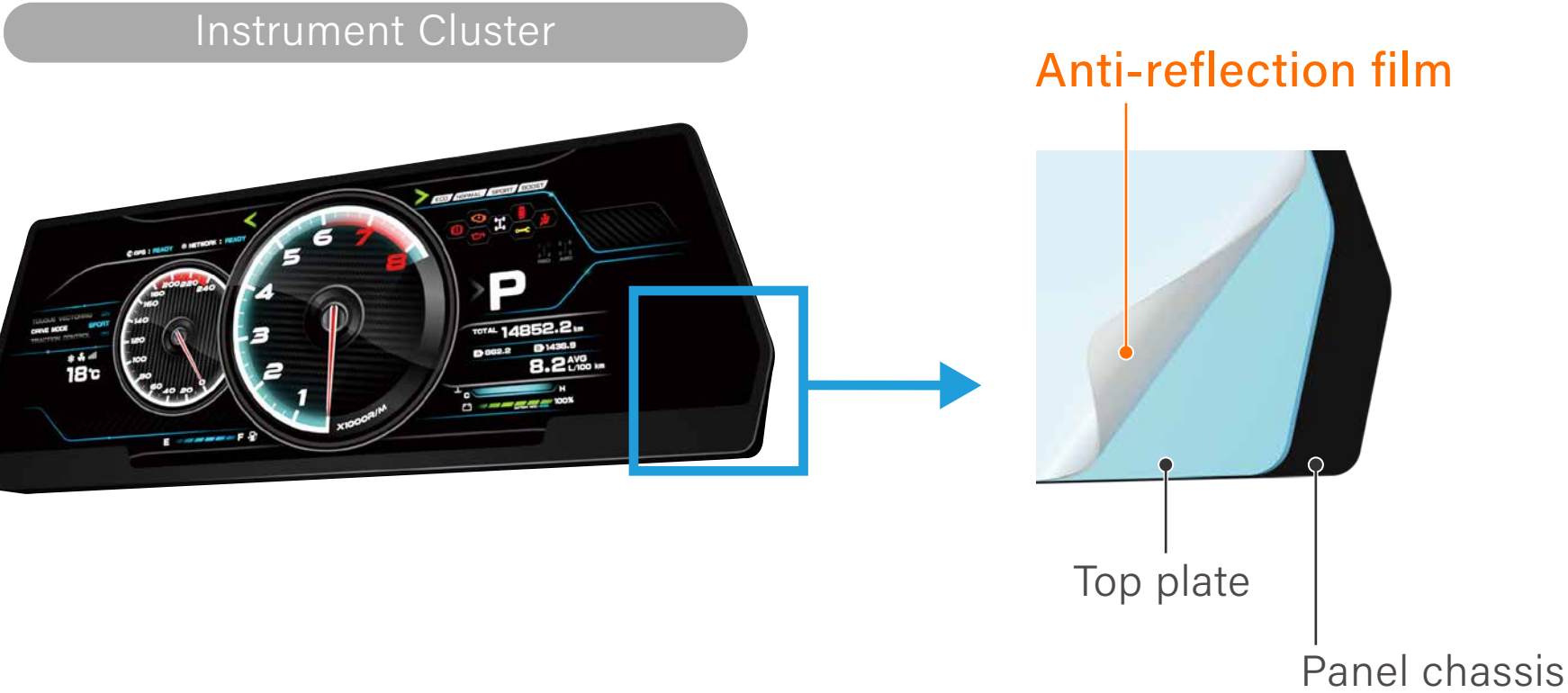
Features



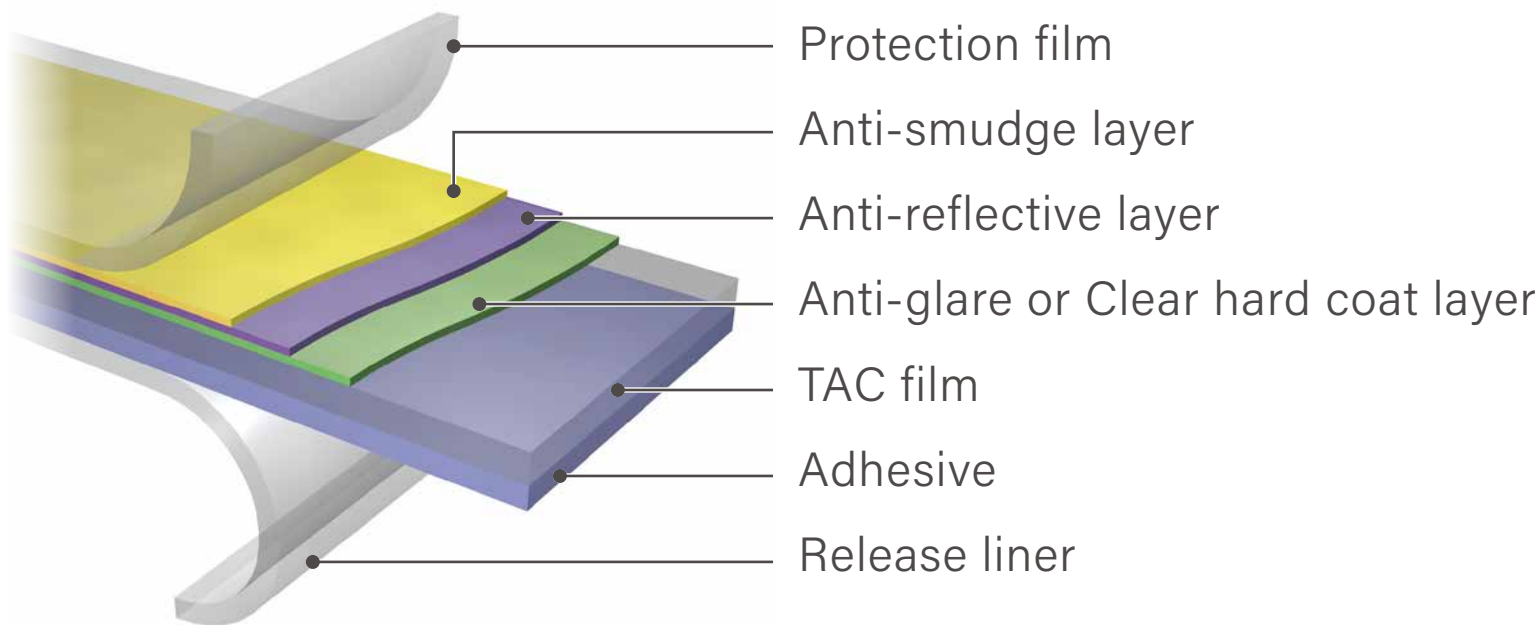
- Superior optical performance due to combination of anti-reflective and anti-glare properties
- Repels fingerprints and is easy-to-clean due to anti-smudge layer
- Excellent abrasion resistance, anti-shattering and touch panel compatibility

Applications

Suitable for center information displays, instrument clusters, mirror displays

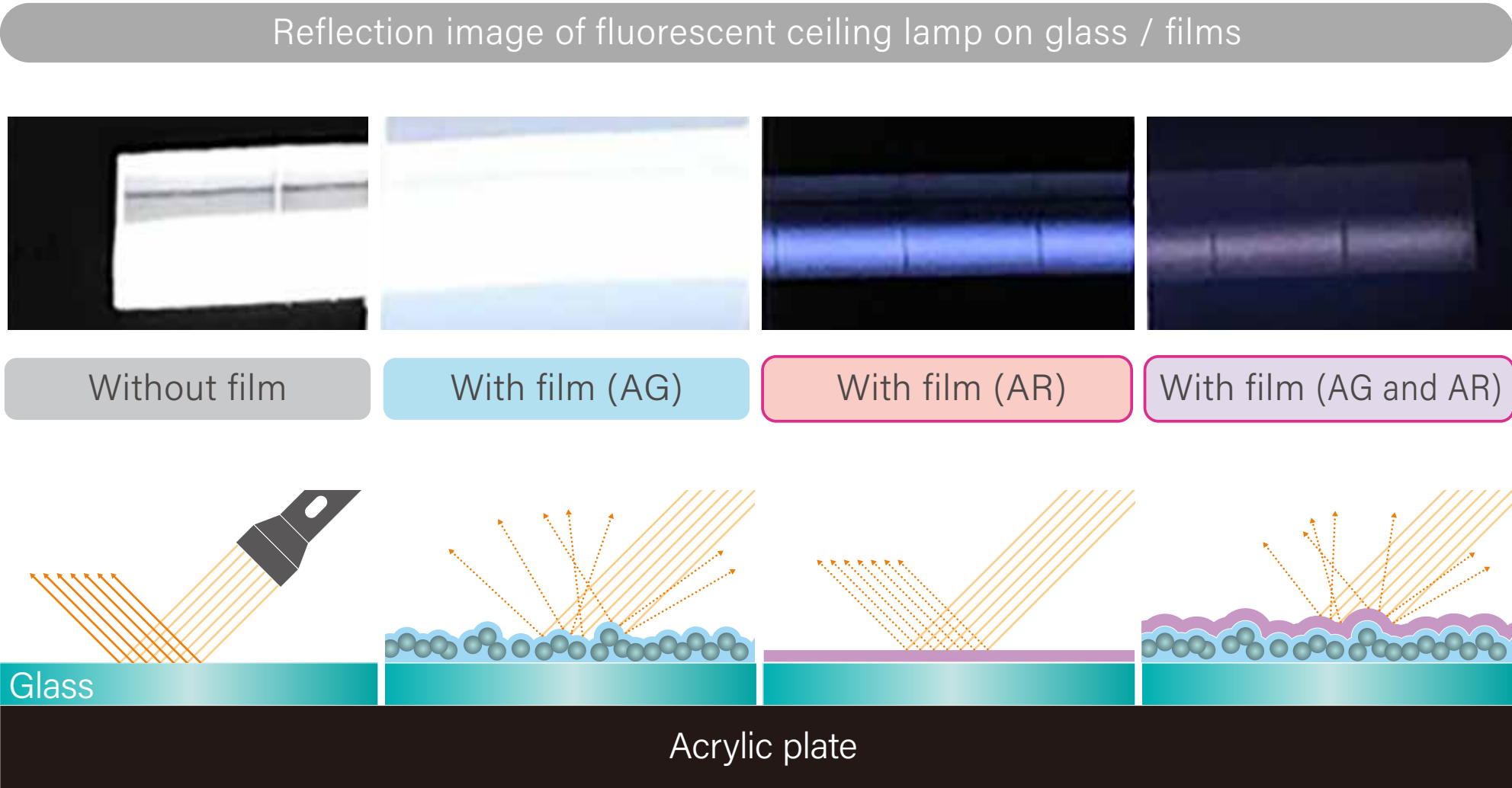


Structure



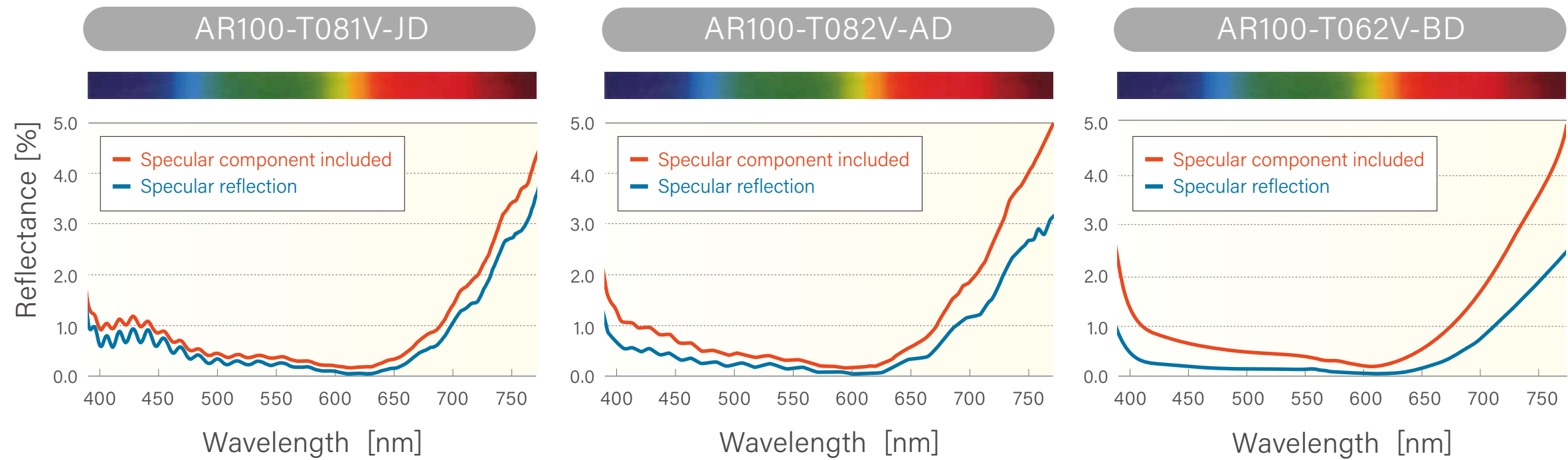
Effect

AR*1 - AG*2 Properties



*1 : Anti-reflection
*2 : Anti-glare

Reflection Spectra



< Test condition >
 Method : JIS Z8781
 Equipment : U-4100 (Hitachi High-Tech Science Corporation)

Technical data

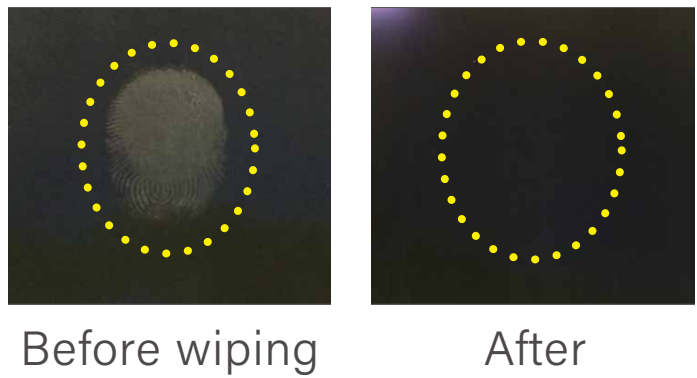
| Item name | | AR100-T081V-JD | AR100-T082V-AD | AR100-T062V-BD | Test condition |
|--------------------------|---------|----------------------------|----------------------------|----------------------------|---|
| Luminous reflectance (Y) | % | 0.18 / 0.32 * ¹ | 0.18 / 0.35 * ¹ | 0.10 / 0.32 * ¹ | JIS Z8701 |
| Hue of reflectance | a* | 1.4 / 2.0 * ¹ | 1.1 / 1.2 * ¹ | 0.0 / 0.7 * ¹ | JIS Z8781 |
| | b* | -6.3 / -7.5 * ¹ | -2.3 / -6.1 * ¹ | -1.5 / -4.4 * ¹ | |
| Haze | % | 0.3 | 4.5 | 12.6 | JIS K7105-6.4 |
| Total transmittance | % | 96.4 | 95.1 | 95.8 | JIS K7105-5.5 |
| Pencil hardness | – | 3H | 3H | 3H | Measured with a load of 500 g based on JIS K5600-5-4 * ² |
| Scratch resistance | – | No scrach | No scratch | No scratch | Steel wool abrasion 2000 gf x 20 times |
| Water contact angle | ° | 114.8 | 114.9 | 115.1 | JIS R3257 |
| Peeling strength | N/25 mm | 10 | 10 | 10 | 90° peeling strength to glass |

*1 : Specular reflectance / SCI (Specular component included)

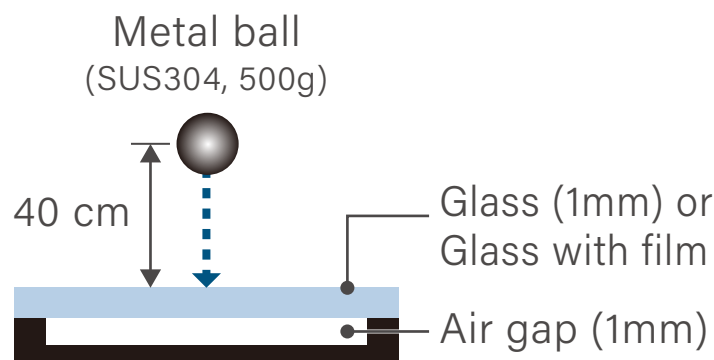
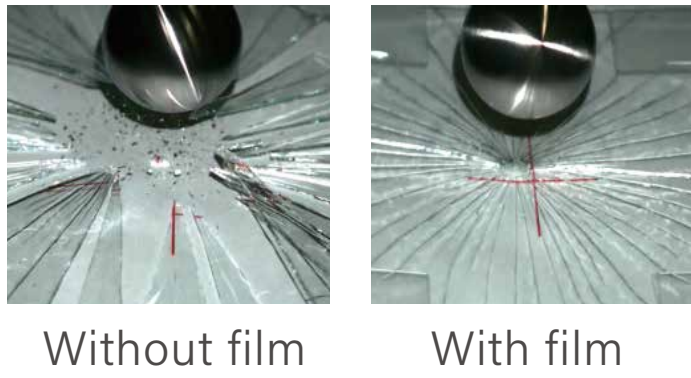
*2 : Without PSA

Properties

Easy-cleaning of fingerprint



Anti-shattering



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The document was created in November 2021.