

**Material Data Sheet****PC Film/Sheet Product****DESCRIPTION**

HCGG-AF is a both side Anti-fogging PC sheet. It's widely used for disposable, protective goggles application. Thanks to its excellent chemical resistance of the coating, our Anti-fog PC sheet is resistance to water & > 95% alcohol and is suitable for repeated use

HCGG-AF Hardcoat PC Sheet**TYPICAL PROPERTY VALUE**

| Property | Standard Test | Unit | Results |
|----------------------------------|--------------------------|-----------|---------|
| PHYSICAL | | | |
| Color/Density | Transparent Clear | ± 5 % | 1.2 |
| Refraction Rate | JIS- D7105 | % | 1.49 |
| Light Transmittion | ASTM - D 1003-61 | % (min) | > 88 |
| Haze | ASTM - D 1003-61 | % (max) | 0.3 |
| MECHANICAL | | | |
| Pencil Hardness | | JIS-D5400 | HB |
| THERMAL | | | |
| Std. Temperature Resistance | ASTM - D 1525-76 | °C | 120 |
| Heat Distortion Temperature | ASTM-D 1637 | °C | 140 |
| Flammability (if using UL resin) | UL94 | | V2 |
| Melting Temperature | DSC Scanning | °C | 255 |

| Anti-Fog Properties | Result | Test Method |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| AF ability (60 °C/3min) | Clear (above 3 times) | Put a coin in a beaker with 60°C water and |
| AF ability (-15 °C/3hr) | Clear | Put a coated sample in refrigerator (~15°C) for 3 hour After this, put out substrate and blow one's breath on it. |
| AF ability (-20 °C) | Clear | Attach the coated substrate in front of full face helmet and breathe in -20°C refrigerator. Observe the clearness and hazy of surface. |
| Soak Test | Clear | Soaking a coated sample in R.T. water for 3 day and dry a substrate 80°C/1 hr. After this, put out substrate and blow one's breath on it. |
| This Technical data is not available for legal certification. Only use for reference information of coating agent. | | |

Disclaimer

The information & value are intended for reference only. It does not guarantee the same data result, data safety and application suitability as described, nor is not considered a warranty or quality specification. Customer should carry its own test to determine your own particular use. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process.