

**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 cover
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.