



Material Data Sheet

PET Film/Sheet Product

DESCRIPTION

UY4200-AF PET, is a Transparent Clear polyester film with 1-side chemical-treated for Anti-fogging with anti scratches resistance. It's suitable for various uses.

It's widely used for face shield usage at helmet, safety & protection industry as google, mouth apparatus, nameplate, overlay & membrane switches with exposure to steam or Non-ventilated

TYPICAL PROPERTY VALUE

Property	Standard Test	Unit	Results
PHYSICAL			
Color/Density	Transparent Clear	± 5 %	1.4
Light Transmittion	ASTM - D 1003-61	UY4200/4300	~ 92
Haze	ASTM - D 1003-61		1.2
MECHANICAL			
Tensile Strength at Break	ASTM -D 638/882	kg/mm ²	18
Tensile Elongation at Break	ASTM -D 638/882	%	90
Friction Coefficient	ASTM -D1894	Static	0.5
THERMAL			
Std. Temperature Resistance	ASTM - D 1525-76	°C	> 105
Shrinkage at 130dec/30min	ASTM - D 1204	% (min)	1.5-2.5
ELECTRICAL PROPERTIES			
Dielectric Strength	JIS C2151	KV/mm	300KV/mm
Dielectric Constant	JIS C2151	1KHz	3.2
		1MHz	3.0
Dissipation Factor	JIS K6911	1KHz	0.30%
		1MHz	1.20%
Volume Resistivity	JIS C2151	Ω.cm	10 ¹⁷

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.