PVDF Film

PVDF fluoropolymer melt extruded film

PVDF film is made from PVDF modified master batch.It has diverse characteristics such as excellent weather resistance, high temperature resistance, organic solvent resistance, acid&alkali resistance, and strong self-cleaning ability.PVDF film is widely used in the field of outdoor as photovoltaic protective film, outdoor building material protective film, outdoor capacitor film, and film layer for electric heating type,etc.

PVDF Film Characteristics

- Excellent weather resistant
- Standout chemical corrosion resistant to acid, alkali, and salt,etc
- Low energy surface, easy to clean
- Fireproof and Fire-retardant
- High dielectric strength
- Continuous service temperature range from -62°C to 150°C
- Melting point of 170-175 ° C , decomposition temperature up to 316 ° C
- Thermoformable,easy to process
- Antibacterial and mildew resistant, surface resistant to bacterial growth

Chemical Protection

PLUSXTECH PVDF film has excellent corrosion resistance to common chemical reagents such as acids and alkali, and can be widely used in various anti-corrosion applications. It has great ductility and can closely adhere to the exposed surface of the equipment.Therefore, even when exposed to air, it can still function as a barrier against corrosive media and pollutants, protect equipment from damage, and extend its service life.

Decorative Applications

PLUSXTECH PVDF film can be printed with many decorative patterns, such as wood grain, stone grain, or metal grain, to meet the decorative needs in different requirements.And the film has excellent chemical inertness, there is no need to worry about the cleaning agent corroding and damaging the film. Even after repeated disinfection and cleaning, there will be no signs of damage.Used for aircraft interior decoration, it can exert its flame retardant and self extinguishing properties,improving safety.

Anti-aging Applications

PLUSXTECH PVDF film,with excellent outdoor weather resistance, has been the best choice for outdoor protective materials.It can be combined with divers products to block sunlight and avoid excessive UV erosion. Meanwhile, its excellent high&low temperature resistance can adapt to extreme environments, delay aging, and provide longer outdoor protection.

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Basic Properties	Test Method	Unit	Standard	Value
Visible Light Transmission	ASTM D1003	%	> 90	92
Haze	ASTM D1003	%	< 10	5.8
Tensile Strength (MD PCT96h)	ASTM D-882	Mpa	> 30	58
Tensile Strength (TD PCT96h)	ASTM D-882	Mpa	> 25	49
Elongation At Break (MD PCT96h)	ASTM D-882	%	> 100	156
Elongation At Break (TD PCT96h)	ASTM D-882	%	> 10	15
UV Transmission (PCT96h)	ASTM D-882	%	< 10	6.4
Yellowing value (Δb PCT96h)	ASTM D-882	/	<2.0	0.86
Melt Point	ASTM D3418	°C	> 167℃	170-175°C
Product Size				
Width		mm	200-2000	
Thickness		μm	18-150	
Color			Clear,Matte, White,Blue, Red,Gray customized color	

Represent typical performance properties and should not be used for specification purposes.

Contact PLUSXTECH film sales representative for appropriate values.