



PROTECTIVE & ADHESIVE FILM



**EMIRATES PANEL
PLASTIC INDUSTRIES**

Company Introduction



Emirates Panel Plastic Industries (hereafter referred to as EPPI) is a proud member of EPM Group providing high quality protection on different kinds of products and surfaces.

Our customers come from a wide variety of industries where our protective films play a vital part in their process, be it construction or packaging and we always provide the latest solutions for their needs. EPPI's focus on innovation ensures we are able to deliver the best products for our customers more efficiently and in a timely manner. As we produce and operate ourselves, we are able to understand and meet our customers special requirements whichever market they operate in. Despite being very thin, protective films can protect the most delicate surfaces from damages. Just think of all the additional costs and material wastage due to scratches, or the expensive polished finish to your surfaces being impaired – this is where EPPI's process plays a very important part.

Having the accessibility of state-of-the-art machinery, our plant is able to cover the entire spectrum of the PE film production and also meets with the stringent requirements of ISO 9001:2015 Quality Management Systems, processes of which we are continually striving to improve on to ensure we are able to offer market competitive lead-times.

Our films are exclusively manufactured from certified raw materials and the quality and performance of our products and processes are also audited at regular intervals by suppliers and independent technical experts alike. While the ISO systems assure customers that we will maintain processes and continually improve on standards, EPPI's commitment to our customers will always be based on pride of workmanship, expertise in one's capabilities and knowledge that all our protective products are second to none.



“In present society where the design, the colour and the final touch are all important elements for a products success, EPPI makes this a reality”



Protective Film and Adhesives

Raw Material Specification for ACP Protective Film

1. Introduction:

EPM provides complete range of surface protection films designed to prevent abrasion, scratching during manufacturing and damage during delivery cycles. Our protective film withstand the stress of manufacturing processes like cutting, bending, deep drawing as well as the effect of mechanical handling during manufacturing and transportation. When the protective film is removed, the quality of substrate is revealed, just as it was when it left the factory. Our product is suitable for substrates like Stainless steel, Coated metals, Aluminum Composite Panels, Clean Room, PVC/Plastic, Decorative laminates and Carpets.

Appearance:

Customized Logo printing (normally 1~3 colors) design according to client requests
No pucker and heave.

Adhesive strength:

180°peel strength (g/25mm)

Viscosity	Strength(g/25mm)	Reference
Tiny	20-50	Mirror Surface
Low	50-150	Bright Coating Surface
Medium	150-300	Light and Some Solid Coating Surface
High	300-500	Some Solid and Some Metal Coating Surface
High+	500-700	Rough Surface

Mechanical Performance:

Intensity of tensility : $\geq 10\text{Mpa}$
Ultimate elongation : $\geq 200\%$



3. Test report

Client		Viscosity		Quantity	
Type			Panel		
Test item	Technical indicators			Test method	Result
Width	Deviation ≤5mm			Tape line measure	
Thickness	average deviation			micrometer	
	max deviation	±3%			
Appearance Demand	The section is neat, no damage, bump, flatness ≤ 5mm, uniform color, smooth surface, no bumps, no ribs, no obvious crystal points, fish eyes and stiff blocks, good integrity, no deformation or defect			Sight result	
Weight Deviation	±0.2%				
Peel Strength	N/mm			Test result	
Tensile Strength	≥12Mpa			Test result	
Cracked Elongation	≥280%			Test result	
Sampling ratio	3 pieces per 10 pieces, less than 3 full inspections				
Judge measure	If the first sampling is found to be unqualified, the second double sampling, and then found unqualified, the batch is rejected.				
Eligible					
Quality inspector			Approve		

4. Package:

Plastic core inside diameter(75-76mm)

Plastic bag and carton paper in rolls; Bubble film cover outside;

Two labels stick on both ends which shows type, size and date information of the product.



Adhesive Film

Raw Material Specifications for ACP Adhesive Film

1. Technical Background

Adhesive film is made by molecular adhesive resin and polyethylene. It's the material use in bonding the mineral core and aluminium coils during the process of manufacturing ACP.

2. Technical Specification

Chemical Structure Composition

Maleic Anhydride modified polyethylene.

Typical Physical Properties

Test Item	ASTM Test Method	Unit	Typical Value
Density	ASTM D-792	g/cm3	0.936
Melt Flow Rate	ASTM D-1238, 190° C/2.16kg	g/10min	3.18
Elongation at Break	ASTM D-638	%	617
Tensile Strength	ASTM D-638	MPa	10.2
Melting point	ASTM D-2117	°C	104.8
Vicat Softening Point	ASTM D-1525	°C	82.1

Recommended Processing Temperature

Processing Method	Setting Temperature of Extruder (°C)					
	C1	C2	C 3	Connecting Area	Connecting Area	Mould
Blowing Film	130	135	135	140	145	150
Casting	170~190	180~200	200~220	210~230	210~240	220~260



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