Hardcoated Polyester Films

For protective overlay and dry erase applications

Technical Information Sheet

Hardcoated PET - for enhanced performance

Challenging applications in the fields of electronic display, electrical appliances or graphic overlaminates demand an enhanced polyester film - a film that supplies greater abrasion and chemical resistance, cleanability and processability than standard uncoated films.

With vast experience in the field of protective laminates, Avery Dennison Hanita has the know-how to engineer the right coated film to precisely fit custom requirements. By combining different grades, thicknesses and types of base polyester film with the appropriate hard coat, Avery Dennison Hanita can fine-tune an optimal solution for the application, at an effective price.

1. Choose your film

Substrate: Polyester Film – 15-300 µm

- > Width: 10-1900 mm
- > Length: Up to 6,000 Im roll
- > Appearance: Metallized, clear (clear super clear), brushed, glossy, matte, white, ultra-matte.
- > Dimensional Stability: Heat stabilized to MD: 0.3% TD: 0.1%, controlled shrink according to requirements.

Alternative Substrates: PC, PMMA - available on request.

2. Select your hardcoat

Clear hardcoat: with high abrasion, scuff and scratch resistance, high resistance to chemicals, wipe clean surface.

Ultra Matte hardcoat: with high abrasion, scuff and scratch resistance, and high resistance to chemicals.

Premium clear hardcoat: with high abrasion, scuff and scratch resistance, high resistance to chemicals, wipe clean surface, with high-durability weathering resistance designed for external use.

3. Add optional developments

Additional second side coatings can include print primers, adhesives or adhesion promoting treatments. Further product enhancements can include multi-ply lamination with metallized, high conductivity or nano-coated films; dry-erase/anti-graffiti properties; anti-fingerprint cleanability or anti-bacterial protection.

Possible Applications

- > Display devices
- > Graphic/labeling overlaminates
- > Dry erase notice boards
- > Exterior signage
- > Protective laminates for white goods etc
- > Functional decor

Benefits

- > Abrasion, scratch and scuff resistance
- > Cleanability
- > Anti-graffiti
- > Optimized planarization (smoothening) of surface
- > Chemical resistance



Property	Test	Clear	Ultra Matte	Premium
Delta Haze (Taber Abrasion)	ASTM D1044	3 - 5	-6	2 - 3.5
Pencil Hardness	ASTM D3363 Wolf –Wilborn pencil test	4H*	5H*	4H*
Cross Hatch	ASTM D3359b	Pass	Pass	Pass
Specular Gloss @60°	ASTM D2457	178	10	170

* Results dependent on substrate

Chemical Resistance of hardcoat – 24 hour immersion at room temperature; repeated scrubbing with chemical saturated cloth.

	Clear	Ultra Matte	Premium
Ethanol	Pass	Pass	Pass
10% Hydrochloric acid	Pass	Fail	Pass
5% Sodium hydroxide	Pass	Pass	Pass
Toluene	Pass	Pass	Pass
MEK	Pass	Pass	Pass
Water with 2% detergent	Pass	Pass	Pass
Window cleaner	Pass	Pass	Pass
10% Acetic acid	Pass	Pass	Pass

Weathering

	Clear	Ultra Matte	Premium
Weathering resistance for interior use	Pass	Pass	Pass
Weathering resistance for exterior use	_	_	Pass

For further information contact surfacing.films@eu.averydennison.com

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