

Mitsubishi Chemical America, Inc.

Description

Hostaphan® 4IJS and 4IJL are ultra clear polyester films that are chemically primed on one and two sides, respectively, to promote adhesion of aqueous based coatings. They combine high strength and durability, optical clarity, and balanced shrinkage for improved flatness after thermal processing.

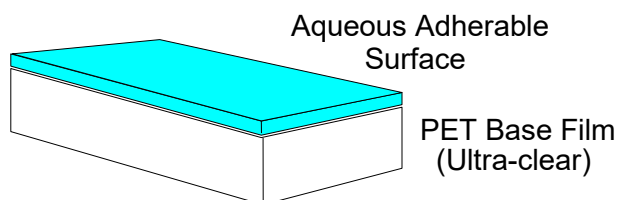
Performance

Hostaphan® 4IJS is designed for markets requiring glass-like clarity and adhesion to aqueous based coatings commonly used in ink jet receptive media, including poly(vinyl alcohol). The chemical treatment also provides the slip necessary to handle and wind an unfilled film. 4IJL is also used in graphic arts and projectural applications.

Benefits

- Aqueous adhesion promotion:
4IJS - one side treated
4IJL - two side treated
- Excellent flatness
- Excellent color and clarity
- Excellent adhesion to PVOH

Schematic of Hostaphan® 4IJS



Typical Properties of Hostaphan® 4IJS and 4IJL Films

The Hostaphan® 4IJS and 4IJL property values below are typical measurements. Further guidance on series selection, functional behavior by end use, film processing, standard roll configuration and gauges is available through a Polyester Film Sales Representative.

Property		Unit of Measure	Typical Value	Test Method
Area Yield		in ² •mil/lb m ² •µm/kg	19,800 717	ASTM D 4321
Tensile Strength	MD	psi kg/cm ²	30,000 2,110	ASTM D 882
Yield Strength (F5)	MD	psi kg/cm ²	15,000 1,050	ASTM D 882
Ultimate Elongation	MD	%	150	ASTM D 882
Modulus	MD	psi kg/cm ²	500,000 35,200	ASTM D 882
Coefficient of Friction (A/B)	Kinetic	--	0.40	ASTM D 1894
Shrinkage	MD TD	%	1.0 1.0	30 min. at 150°C
Density		g/cm ³	1.395	ASTM D 1505
Total Haze*		%	200 gauge 0.40 300 " 0.48 400 " 0.58 500 " 0.66 700 " 0.85	ASTM D-1003

* Values for reference data only. Contact a Polyester Film Sales Representative for actual gauges available.
Approved TW 1/2008

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