2MRLN
Cold Seal Release

MITSUBISHI POLYESTER FILM

PRODUCT BULLETIN

Description

Hostaphan® 2MRLN polyester film is chemically primed on one side for cold seal adhesive release and chemically primed on the opposite side for adhesion promotion. This product exhibits high strength and flexibility, good dimensional stability and excellent chemical resistance.

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Performance

Hostaphan® 2MRLN has excellent slip and good dimensional stability over a wide temperature range. This product is designed specifically for use in packaging applications where cold seal adhesive release is needed on one side and an adhesion-promoting surface for printing and lamination on the opposite side.

FDA Status

Both sides of Hostaphan® 2MRLN may be used in direct food contact subject to the limitations found in 21 CFR 177.1630. Contact your Mitsubishi Polyester Film Sales Representative for more information.

Benefits

- Available in 48 gauge
- Excellent handling characteristics
- Release levels $\leq$ 100 gm/in with most cold seal releases
- No cold seal deadening
- Typically used in “buried print” cold seal applications
- Standard gauge: 48

Schematic of Hostaphan® 2MRLN

Acrylic Adherable Surface

PET Base Film
(Moderate Haze)

Cold Seal Adhesive Release Surface

Typical Properties of Hostaphan® 2MRLN Films

The Hostaphan® 2MRLN 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 Mitsubishi Polyester Film Sales Representative.

Property		Unit of Measure		Typical Value	Test Method
Thickness Available		gauge microns		48 12	ASTM E 252
Area Yield	48 ga.	in^2•mil/lb m^2•µm/kg		19,800 717	ASTM D 4321
Tensile Strength	MD	psi kg/cm^2		32,000 2, 250	ASTM D 882
Yield Strength (F5)	MD	psi kg/cm^2		15,000 1,050	ASTM D 882
Ultimate Elongation	MD	%		100	ASTM D 882
Modulus	MD	psi kg/cm^2		600,000 42,200	ASTM D 882
Coefficient of Friction	Kinetic	--	A/A A/B B/B	0.22 - 0.28 < 0.30 0.28 – 0.32	ASTM D 1894
Shrinkage	MD TD	%		2.5 0.8	30 min. at 150°C
Tear Strength	MD	g/mil g/µm		20 0.8	ASTM D 1922
Moisture Vapor Transmission Rate		g /100 in^2•24 hr g /m^2•24 hr	48 ga.	3.7 57	ASTM E 96 , E
Oxygen Transmission Rate		cc /100 in^2•24 hr•atm cc /m^2•24hr•atm	48 ga.	9.1 141	ASTM D 3985
Density		g/cm^3		1.395	ASTM D 1505
Total Haze*		%	48 ga.	3.0	ASTM D-1003
Cold Seal Adhesive Release		gm/in		≤100	Internal Test
Surface Energy			slip / release side acrylic side	36 43	Internal test (contact angle)

*Values for reference data only. Contact a Mitsubishi Polyester Film Sales Representative for actual gauges available.

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