

# 2RD4N & 2RD6N High COF Films



PRODUCT BULLETIN

## Description

Hostaphan® 2RD4N and 2RD6N are polyester films that offer high COF on one side and are chemically primed on the other side for enhanced adhesion. They combine high strength and flexibility, good dimensional stability and excellent chemical resistance.

## Performance

Hostaphan® 2RD4N and 2RD6N films have good dimensional stability over a wide temperature range. The primed surface provides enhanced adhesion to solvent based inks, coatings, and adhesives, as well as vacuum deposited metal. 2RD4N and 2RD6N can be coated or metallized to enhance barrier properties.

## FDA Status

Both sides of Hostaphan® 2RD4N and the plain side of 2RD6N can be used for direct food contact applications subject to limitations found in 21 CFR 177.1630. The chemically primed side of 2RD6N can be used in direct contact with dry foods and fatty foods and with aqueous foods under low temperature conditions. Other applications may require a functional barrier. For more information, contact your Mitsubishi Polyester Film Sales Representative.

## Benefits

- Acrylic coating on one side (2RD4N); copolyester coating on one side (2RD6N)
- Most inks, barrier coatings, adhesives and metallization may be applied to the chemically primed side without additional priming or corona treatment
- Excellent handling characteristics
- High COF Surface >0.80
- Standard gauge: 48

## Schematic of Hostaphan® 2RD4N and 2RD6N

Acrylic OR Copolyester Adherable Surface



PET Base Film

High COF Surface

## Typical Properties of Hostaphan® 2RD4N and 2RD6N Films

The Hostaphan® 2RD4N and 2RD6N 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
Area Yield	48 ga.	in <sup>2</sup> •mil/lb m <sup>2</sup> •µm/kg	19,800 717	ASTM D 4321
Tensile Strength	MD	psi kg/cm <sup>2</sup>	32,000 2,250	ASTM D 882
Yield Strength (F5)	MD	psi kg/cm <sup>2</sup>	15,000 1,050	ASTM D 882
Ultimate Elongation	MD	%	100	ASTM D 882
Modulus	MD	psi kg/cm <sup>2</sup>	600,000 42,200	ASTM D 882
Coefficient of Friction A/B	Static Kinetic	--	0.40 0.37	ASTM D 1894
Coefficient of Friction A/A	Static Kinetic	--	>0.8 >0.8	ASTM D 1894
Shrinkage	MD TD	%	2.5 0.8	30 min. at 150°C
Tear Strength	MD	g/mil	20	ASTM D 1922
Moisture Vapor Transmission Rate		g /100 in <sup>2</sup> •24 hr g /m <sup>2</sup> •24 hr	48 ga. 3.7 57	ASTM E 96
Oxygen Transmission Rate		cc /100 in <sup>2</sup> •24 hr•atm cc /m <sup>2</sup> •24hr•atm	48 ga. 9.1 141	ASTM D 3985
Density		g/cm <sup>3</sup>	1.395	ASTM D 1505
Total Haze*		%	48 ga. 3.0	ASTM D-1003
Surface Energy		copolyester coated side acrylic coated side	approx. 50 approx. 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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