2RD6N
High Surface Friction

Mitsubishi Chemical America, Inc.

Product Bulletin

Description

Hostaphan® 2RD6N polyester film is chemically primed on one side for enhanced adhesion and offers moderate coefficient of friction (COF) on one side. The film combines high strength and flexibility, good dimensional stability, and excellent chemical resistance.

Performance

Hostaphan® 2RD6N polyester film has 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. 2RD6N can be coated or metallized to enhance barrier properties.

FDA Status

The uncoated side Hostaphan® 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 a Polyester Film Sales Representative.

Schematic of Hostaphan® 2RD6N

Copolyester Adherable Surface

PET Base Film

High COF Surface

Benefits

- Copolyester coated on one side (2RD6N)
- Most inks, barrier coatings, adhesives and metallization may be applied to the chemically treated side without additional priming
- Excellent handling characteristics
- High Friction side has kinetic COF > 0.60
- Standard gauge: 48

Typical Properties of Hostaphan® 2RD6N Film

The Hostaphan® 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 Polyester Film Sales Representative.

Property		Unit of Measure		Typical Value	Test Method
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 1 / 2	Static Kinetic	--		0.40 0.37	ASTM D 1894
Coefficient of Friction 2 / 2	Static Kinetic	--		> 0.6 > 0.6	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^2•24 hr g /m^2•24 hr	48 gauge	3.7 57	ASTM E 96
Oxygen Transmission Rate		cc /100 in^2•24 hr•atm cc /m^2•24hr•atm	48 gauge	9.1 141	ASTM D 3985
Density		g/cm^3		1.395	ASTM D 1505
Total Haze*		%	48 gauge	3.0	ASTM D-1003
Surface Energy		dynes	Adherable surface	~ 50	Water contact angle

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