

# 2GHUVN & 26HUVN UV Protected Films



PRODUCT BULLETIN

## Description

Hostaphan® 2GHUVN and 26HUVN are multi-layer polyester films that are chemically primed on one side for enhanced adhesion. The opposite side has a high kinetic coefficient of friction (COF) surface layer. Both the outer high COF layer and the center layer have UV protection. For specialized applications, these films combine a high COF non-slip side, adhesion promoter, high strength, flexibility, high temperature dimensional stability and excellent chemical resistance.

## Performance

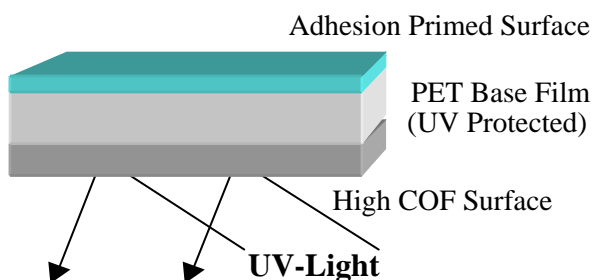
Hostaphan® 2GHUVN and 26HUVN films have one chemically primed surface which provides enhanced adhesion to solvent based inks, coatings, and adhesives, as well as vacuum deposited metal. The 2GHUVN and 26HUVN can be coated or metallized to enhance barrier properties. The UV absorber in these films provides protection for both the film and any substructure in a laminate\*. These films also exhibit the same good dimensional stability over a wide temperature range that is typical of Hostaphan® polyester films.

*\*For maximum UV protection, the high COF surface should face the UV source.*

## FDA Status

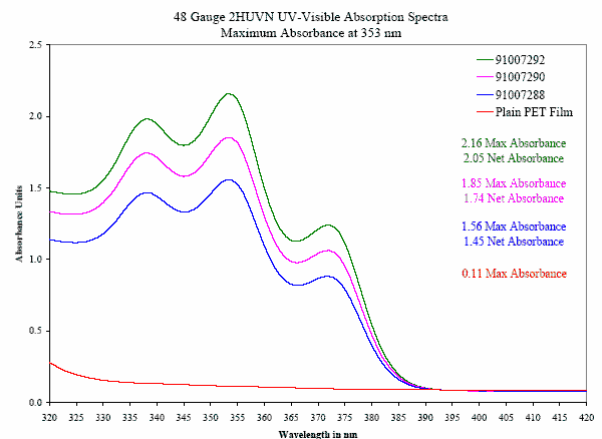
Both sides of Hostaphan® 2GHUVN and the untreated side of Hostaphan® 26HUVN can be used for direct food contact applications subject to limitations found in 21 CFR 177.1630 and in accordance with good manufacturing practices. The chemically primed surface of 26HUVN can be used in direct contact with dry and fatty foods and with aqueous foods under low temperature conditions. Contact your Mitsubishi Polyester Film Sales Representative for more information.

## Schematic of Hostaphan® 26HUVN



## Benefits

- UV protection from ~375 nm and lower – providing UV degradation protection for both the film and sublayer(s) in a laminate construction.
- High COF outer surface for slip resistance
- One side chemically primed for adhesion to most inks, barrier coatings, adhesives and metallization without additional primer or corona treatment.
- Excellent handling characteristics, despite high COF blocking side, due to multi-layer technology



## Typical Properties of Hostaphan® 2GHUVN and 26HUVN Films

The Hostaphan® 2GHUVN and 26HUVN 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		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
	TD	psi kg/cm <sup>2</sup>	35,000 2,460	ASTM D 882
Ultimate Elongation	MD	%	100	ASTM D 882
	TD	%	85	ASTM D 882
Modulus	MD	Kpsi kg/cm <sup>2</sup>	550 38,700	ASTM D 882
	TD	Kpsi kg/cm <sup>2</sup>	600 42,200	ASTM D 882
Coefficient of Friction (high COF / high COF)	Kinetic	--	>0.60	ASTM D 1894
Shrinkage	MD	%	2.0	30 min. at 150°C
	TD	%	0.5	
Tear Strength	MD	g/mil g/µm	20 0.8	ASTM D 1922
Moisture Vapor Transmission Rate		g /100 in <sup>2</sup> •24 hr g /m <sup>2</sup> •24 hr	48 gauge 3.7 57	ASTM E 96 , E
Oxygen Transmission Rate		cc /100 in <sup>2</sup> •24 hr•atm cc /m <sup>2</sup> •24hr•atm	48 gauge 9.1 141	ASTM D 3985
Density		g/cm <sup>3</sup>	1.395	ASTM D 1505
Total Haze*		%	48 gauge 3.0	ASTM D-1003

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

Approved JT; KT 9/10



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