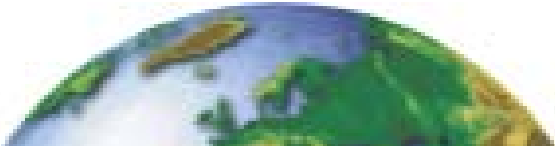


# N511 Clear Dyeing Film



## PRODUCT BULLETIN

### Description

Hostaphan® N511 is a clear polyester film that is slip modified on both sides for improved handleability in intermediate and ultimate processing. It combines high strength and durability, good dimensional stability and excellent chemical resistance with high clarity.

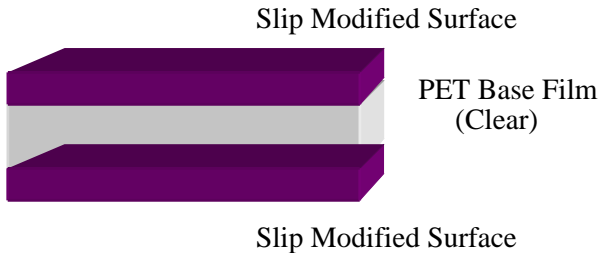
### Performance

Hostaphan® N511 film is used as a film base for chemical dyeing. The dyed substrate is suitable for use in solar control and many other applications where surface smoothness and brilliance are required.

### Benefits

- Excellent clarity and effective haze of converted products
- Modified surface for improved slip

### Schematic of Hostaphan® N511



## Typical Properties of Hostaphan® N511 Film

The Hostaphan® N511 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>	31,000 2,180	ASTM D 882
Yield Strength (F5)	MD	psi kg/cm <sup>2</sup>	15,500 1,090	ASTM D 882
Ultimate Elongation	MD	%	115	ASTM D 882
Modulus	MD	psi kg/cm <sup>2</sup>	550,000 38,700	ASTM D 882
Coefficient of Friction (A/B)	Static	--	0.40	ASTM D 1894
	Kinetic		0.35	
Shrinkage	MD	%	4.2	30 min. at 190°C
	TD		1.7	
Density		g/cm <sup>3</sup>	1.395	ASTM D 1505
Total Haze*		%	48 gauge 92 gauge	ASTM D-1003
			1.4 1.9	

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

Approved RS 3/09



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