

Mitsubishi Chemical America, Inc.

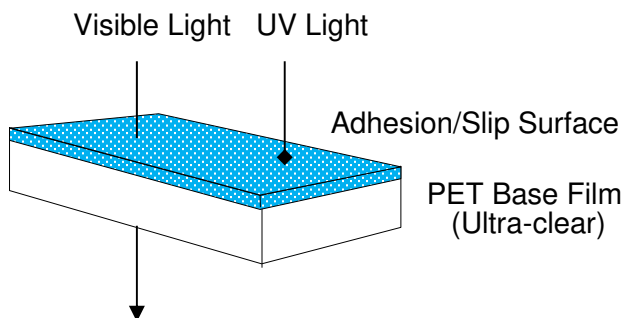
### Description

Hostaphan® 7333UV ultra-clear polyester film is chemically modified on one side for handleability and improved adhesion to acrylic hard coatings. This film is highly effective at blocking the transmission of UV radiation. It combines high strength and durability, good dimensional stability, and excellent chemical resistance with very low haze.

### Performance

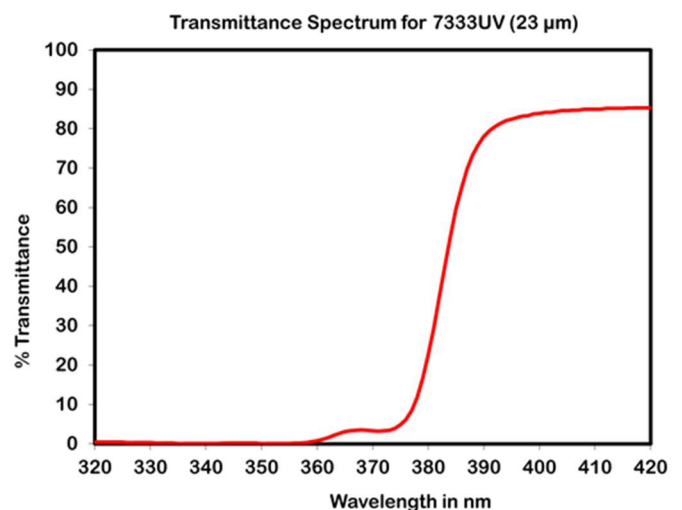
Hostaphan® 7333UV is designed for applications where UV protection with high clarity is required. This film is utilized in metallized products, solar control laminates and other applications that benefit from low haze, surface smoothness and brilliance.

### Schematic of Hostaphan® 7333UV



### Benefits

- Excellent clarity and color
- Modified surface for improved slip
- Enhanced adhesion to scratch-resistant coatings
- Reduced potential for scratching during web handling
- Retention of UV blocking capability for a least one year in outdoor applications\*
- Multiyear durability in outdoor applications\*



\* based on accelerated aging studies using QUV340 irradiation, average UV flux 78 W/m<sup>2</sup> (300-400nm integrated intensity), continuous exposure at 60°C.

## Typical Properties of Hostaphan® 7333UV Film

The Hostaphan® 7333UV 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		ft <sup>2</sup> /lb m <sup>2</sup> /kg	92 gauge (23 µm)	149.5 30.6	ASTM D 4321
Tensile Strength	MD	psi kg/cm <sup>2</sup>		33,000 2,320	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	--		0.45	ASTM D 1894
	Kinetic			0.40	
Shrinkage	MD	%		1.6	30 min. at 150°C
	TD			0.4	
Shrinkage	MD	%		4.2	30 min. at 190°C
	TD			1.7	
Density		g/cm <sup>3</sup>		1.395	ASTM D 1505
Transmission		%		89	ASTM D-1003
Total Haze*		%	48 gauge (12.5 µm)	0.9	ASTM D-1003
			92 gauge (23 µm)	1.2	
			142 gauge (36 µm)	1.5	
UV Cut Off @320 nm*		%	48 gauge (12.5 µm)	5.0	ASTM D-2008-12
			92 gauge (23 µm)	0.3	
			142 gauge (36 µm)	< 0.03	
UV Cut Off @365 nm*		%	48 gauge (12.5 µm)	14	ASTM D-2008-12
			92 gauge (23 µm)	3	
			142 gauge (36 µm)	0.4	

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