WSAC
White Opaque Film

Mitsubishi Chemical America, Inc.

Product Bulletin

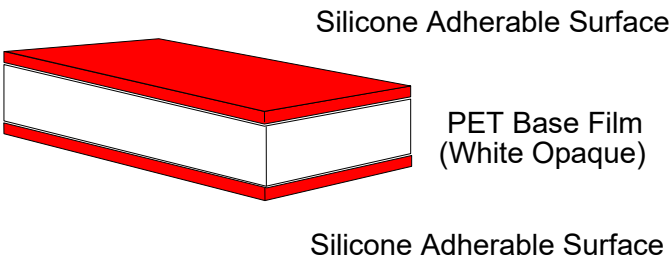
Description

Hostaphan® WSAC is a bright white polyester film that is chemically treated for enhanced adhesion to silicone compounds. This film also adheres well to peroxide cross-linked EVA. It combines high strength and durability with good dimensional stability, electrical insulation, and excellent chemical resistance.

Performance

Hostaphan® WSAC is useful as a base film in specialty tape and release liner applications. Strong electrical insulation, outdoor durability, and adhesion to peroxide cross-linked EVA make this film a good candidate for use in solar cell back sheet laminates.

Schematic of Hostaphan® WSAC



Benefits

- Adhesion to silicone release coatings and adhesives. No priming or corona treatment necessary
- Excellent opacity, brightness, and visible light reflectivity
- Chemical treatment provides 50-55 dyn/cm surface energy
- Superior electrical insulation
- Chemical and environmental resistance. UL RTI rating of 130°C

Typical Properties of Hostaphan® WSAC Film

The Hostaphan® WSAC 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
Tensile Strength	MD	psi		21,000	ASTM D 882
		N/mm^2		150	
	TD	psi		31,000	
		N/mm^2		240	
Yield Strength (F5)	MD	psi		13,000	ASTM D 882
		N/mm^2		90	
	TD	psi		15,200	
		N/mm^2		105	
Ultimate Elongation	MD	%		160	ASTM D 882
	TD			90	
Shrinkage	MD	%		1.0	DIN 40634
	TD			1.0	15 min. at 150°C
Density		g/cm^3		1.42	ASTM D 1505
%Transmission		%	50 µm	18	ASTM D 1003
			125 µm	10	
			250 µm	4	
Luminance (L*)		-	50 µm	94.5	ASTM E-308
			125 µm	95.5	
			250 µm	97.5	
Yellowness Index		-	50 µm	-9.5	ASTM E-313
			125 µm	-8.0	
			250 µm	-7.0	
Gloss		-		50	ASTM D2457
					Angle of measure 20°
Opacity		-	50 µm	92	Internal Test Method
			125 µm	98	
			250 µm	99	
Water Vapor Transmission		$g/m^2 \cdot 24hr$	50 µm	12.0	ASTM F 1249
			125 µm	4.8	37.8^0 C, 85% RH
			250 µm	2.4	
Partial Discharge Test PET Film		VDC	125 µm	721	IEC 60664-1
			250 µm	1050	22^0C, 40% RH

*Values for reference data only. Contact a Polyester Film Sales Representative for actual gauges available.
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Mitsubishi Chemical America, Inc. • PO Box 1400 • 2001 Hood Road • Greer, SC 29652 • 864-879-5000 • 864-879-5006 • www.m-petfilm.com