

Mitsubishi Chemical America, Inc.

Description

Hostaphan® 22LRKN polyester is an experimental silicone film. This special silicone coating is formulated to give easy release from selected solvent based adhesives. The other side is specially treated with a slip control coating to ensure proper tracking of the film web. Along with high strength, flexibility, and chemical resistance, this product provides excellent slip and good dimensional stability over a wide temperature range.

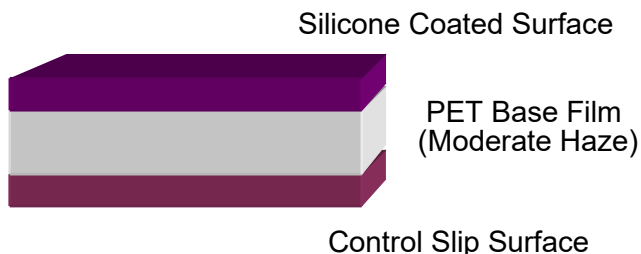
Performance

The silicone coating on Hostaphan® 22LRKN is specially treated prior to winding. This silicone formulation provides easy release from selected adhesives. The special control slip coating treatment essentially eliminates the effect of backside silicone transfer. The slip controlled surface may act as a primed surface for printing using special polyester film inks.

FDA Status

The silicone coated side of Hostaphan® 22LRKN can be used for direct food contact applications subject to limitations found in 21 CFR 177.1630. The control slip surface of 22LRKN can be used in direct contact with dry and fatty foods and with aqueous foods under low temperature conditions. For more information, contact a Polyester Film Sales Representative.

Schematic of Hostaphan® 22LRKN



Benefits

- Minimum silicone rub-off
- Provides very consistent release level with aging
- Excellent handling characteristics
- Clear distortion free coating
- Ultra-thin, highly cured coating which does not smear
- Better than 95% subsequent adhesion
- No static induced defects (Newton Rings)

WARNING:

Silicone coated film is very slippery. Do not discard scrap film on the floor. Injury may result if stepped on.

CAUTION:

Backside control slip coating may interact with face stock top coats that are highly reactive, especially ones that are water sensitive or used in high humidity environments.

Abrasion of the backside control slip coating may result in the generation of small particulate contamination.

Typical Properties of Hostaphan® 22LRKN Film

The Hostaphan® 22LRKN 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.

THICKNESS GAUGE	MICRONS	AREA YIELD		HAZE
		in ² /lb	m ² /kg	
106	26.9	18,700	26.6	5.5
118	30.0	16,800	23.9	6.0
142	36.1	14,000	19.8	8.0

Property	Unit of Measure		Typical Value	Test Method
Tensile Strength	MD	psi kg/cm ²	32,000 2,100	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 38,700	ASTM D 882
Coefficient of Friction A/B	Kinetic	--	0.40	ASTM D 1894
Shrinkage	MD TD	%	1.5 0.4	30 min. at 150°C
Density		g/cm ³	1.395	ASTM D 1505

SILICONE FUNCTIONALITY

Release from Easy Release Side	g/in	3 to 9	T-peel from "F" Tape tape @ 12 in./min
Smear	--	None	Haze observed when rubbed once with index finger
Rub-off	--	None	Coating removed when rubbed hard with index finger

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

* ASTM Test Methods: GAUGE (E-252); AREA YEILD (D-4321); HAZE (D-1003)

Approved TW 5/2009

Mitsubishi Chemical America, Inc. • PO Box 1400 • 2001 Hood Road • Greer, SC 29652 • 864-879-5000 • 864-879-5006 • www.m-petfilm.com

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