

Mitsubishi Chemical America, Inc.

Description

Hostaphan® 4HLK polyester film is silicone coated on one side. Along with high strength, flexibility, and chemical resistance, this product provides consistent release, excellent slip and good dimensional stability over a wide temperature range. This product has been specifically designed to meet the needs of the medical device industry.

Performance

The silicone coating on Hostaphan® 4HLK is specially treated prior to winding. This special treatment minimizes back-side transfer of the silicone, which may affect the adhesion. Because the silicone is highly cured, there is essentially no migration of the silicone onto adhesive in contact with the release film. This product has been designed to meet medical device needs and is only available in thicknesses greater than 50µm (2mil).

FDA Status

Both sides of Hostaphan® 4HLK can be used for direct food contact applications subject to limitations found in 21 CFR 177.1630 and in accordance with good manufacturing practices. For more information, contact a Polyester Film sales representative.

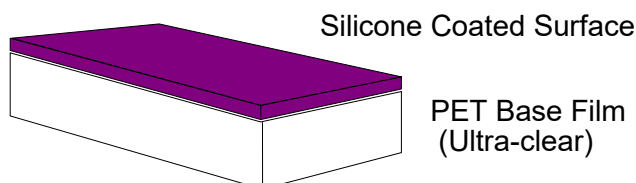
WARNING:

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

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)

Schematic of Hostaphan® 4HLK



Typical Properties of Hostaphan® 4HLK Film

The Hostaphan® 4HLK 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 ² /lb (m ² /kg)	75 µm (3 mil)	45.8 (9.4)	ASTM D 4321
			100 µm (4 mil)	34.4 (7.0)	
			125 µm (5 mil)	27.5 (5.6)	
Tensile Strength	MD	psi kg/cm ²	30,000 2,100	ASTM D 882	
Yield Strength (F5)	MD	psi kg/cm ²	15,000 1,050	ASTM D 882	
Ultimate Elongation	MD	%	115	ASTM D 882	
Modulus	MD	psi kg/cm ²	450,000 31,000	ASTM D 882	
Coefficient of Friction A/B	Kinetic	--	0.20	ASTM D 1894	
Shrinkage	MD	%	1.5	30 min. at 150°C	
	TD		0.4		
Density		g/cm ³	1.395	ASTM D 1505	
Total Haze*		%	75 µm (3 mil)	2.0	ASTM D-1003
			100 µm (4 mil)	3.0	
			125 µm (5 mil)	4.0	

SILICONE FUNCTIONALITY

Release Level		g/in	<20	T-peel from Tesa 7475 adhesive @ 20 in./min.
---------------	--	------	-----	--

* Values for reference data only. Contact a Polyester Film sales representative for actual gauges available.
Approved MG 4/2016

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

Hostaphan is a registered trademark of Hoechst AG and is licensed to Mitsubishi Chemical America, Inc. The information contained herein is believed to be true and accurate, but all data, recommendations and suggestions are provided without guarantee, since the conditions of use are beyond our control and can affect the performance and properties of our products. The user is solely responsible for confirming that our product is suitable for the intended end use, and for compliance with all legal regulations and patents. Other than compliance with published Mitsubishi Chemical America, Inc. specifications for one year following purchase, if properly handled, and except as required by law, MITSUBISHI CHEMICAL AMERICA, INC. MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If a product is found to be non-conforming during the warranty period, user's sole remedy and our sole obligation is, at our option, replacement of the affected product or refund of the purchase price. Except as required by law, we are not liable for any damage, harm or loss resulting from our product, whether direct, indirect, consequential, incidental or special, and irrespective of legal theory asserted, including strict liability, contract, warranty, or negligence.

©2000-2014, 2016, 2021, 2022 Mitsubishi Chemical America, Inc. All rights reserved.