



Hostaphan® RN SIF10

Transparent, siliconised polyester film for food contact

Hostaphan® RN SIF10 is a one side silicone coated, biaxially oriented film, made of polyethylene terephthalate (PET) and characterized by outstanding properties. The siliconized film is designed to be used in release applications, where food approval is necessary.

WARNING:

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

Typical properties

Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD	TD		
MECHANICAL						
Tensile strength	23	N/mm ²	240	260	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
	30		250	260		
	36		250	260		
Elongation at break	23	%	130	130	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
	30		140	130		
	36		140	130		
Young's Modulus	23	N/mm ²	4400	4800	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 1 %/min.; 23 °C, 50 % r.h.
	30		4400	4800		
	36		4400	4800		
F5-value (stress to obtain 5% elongation)	23	N/mm ²	110	100	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
	30		110	105		
	36		110	105		
THERMAL						
Shrinkage	23-36	%	1.3	0.2	DIN 40634	150°C, 15 min.
SURFACE						
Coefficient of friction (uncoated surface) Static Dynamic	23-36	-		0.35 0.3	DIN53375 or ASTM-D 1894	-
PHYSICAL/CHEMICAL						
Density	23-36	g/cm ³	1.4		ASTM-D 1505-68 method C	23°C
SILICONE FUNCTIONALITY						
Release from silicone side	23-36	g/ 25 mm	10	-	-	Unsupported T-peel from tesa 7475 tape @ 12in./min, initial value
The release force given in this datasheet has been measured using a standard commercial adhesive tape. In our experience, release levels vary with different pressure sensitive adhesives, face-stock materials and thickness as well as test conditions. Actual release force needs to be measured specifically for any given liner/adhesive/face-stock structure.						



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Property	Thickness μm	Units	Value		Test Method	Test Conditions
			MD	TD		
Subsequent adhesion	23-36	%	> 75		-	Similar to FINAT FTM 11
Smear	23-36	-	None		-	Haze observed when rubbed once with index finger
Rub-off	23-36	-	None		-	Coating removed when rubbed hard with index finger

MD = Machine direction, TD = Transverse direction

Applications:

- Release liner for label stock
- Other release applications

Delivery program Hostaphan® RN SIF10

Thickness μm	Yield		Roll length <i>m</i>	Roll-diameter <i>mm</i>
	g/m^2	m^2/kg		
23	32	31	On request	On request
30	42	24		
36	50	20		

Core diameter: 152.4 mm (6")

This Hostaphan® film is permitted for food contact according to the current version of EC Directive 1935/2004 and 10/2011 as well as FDA regulation 21 CFR 177.1630 under the conditions set out in our current Declaration of Compliance. Before using this Hostaphan® film in a food contact article, please request this Declaration of Compliance.

This data sheet reflects our state of knowledge at the time this was prepared. The purpose is to provide an overview of the characteristics of our products and their potential uses. The values given reflect the typical characteristics of the film. They are not specification limits. They are neither a guarantee of specific properties nor the suitability of products in specific applications. The user must observe industrial property rights, such as patents or trademarks. The quality of our products is covered by the terms of the General Conditions of Sale of MITSUBISHI POLYESTER FILM GmbH.

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