MITSUBISHI CHEMICAL GROUP

HOSTAPHAN™

HOSTAPHAN™ RNKS 2PRK

Siliconised polyester film for release liners

HOSTAPHAN™ RNKS 2PRK is a one side silicone coated, biaxially oriented film, made of polyethylene terephthalate (PET) and characterized by outstanding properties. The siliconised film is designed to be used in release liner applications. Because the silicone is highly cured, there is essentially no migration of the silicone to any adhesive which may be in contact with the film. The film is not permitted to be used in food applications.

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	12 19, 23 30 36	N/mm^2	270 250 250 250	260 260 265 265	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	12 19, 23 30 36	%	130 135 135 140	130 130 130 130	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Young´s Modulus	12 19, 23 30 36	N/mm^2	4500 4400 4400 4400	4800 4800 4900 4900	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 1 %/min.; 23 °C, 50 % r.h.
F5-value (stress to obtain 5% elon-gation)	12 19, 23 30 36	N/mm^2	110 110 110 110	100 100 105 105	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
THERMAL						
Shrinkage	12-36	%	1.4	0.1	DIN 40634	150°C, 15 min.
SURFACE						
Coefficient of friction (uncoated surface) Static Dynamic	12-36	-	 0.35 0.3		DIN53375 or ASTM-D 1894	-
PHYSICAL/CHEMICAL						
Density	12-36	g/cm^3	1.4		ASTM-D 1505-68 method C	23°C
SILICONE FUNCTIONALITY						
Release from sili-cone side	12 23-36	g/25 mm	12 14		-	Unsupported T-peel from tesa 7475 tape @ 12in./min, initial value

Property	Thickness µm	Units	Value MD	Value TD	Test Method	Test Conditions
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.						
Subsequent adhesion	12-36	%	> 90		-	Similar to FINAT FTM 11
Smear	12-36	-	None			Haze observed when rubbed once with index finger.
Rub-off	12-36	-	None			Coating removed when rubbed hard with index finger

MD = Machine direction, TD = Transverse direction

Applications:

- Release liner for label stock
- Process liner
- Other release applications

Delivery program HOSTAPHAN™ RNKS 2PRK

Thickness µm	Yield g/m²	Yield m²/kg	Roll length m	Roll-diameter mm
12	17	60	On request	On request
19	27	37		
23	32	31		
30	42	24		
36	50	20		

Core diameter: 152.4 mm (6")

The siliconised side of RNKS 2PRK is wound to the outside.
RNKS 2PRKI is available on request with the siliconised side wound to the inside.

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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