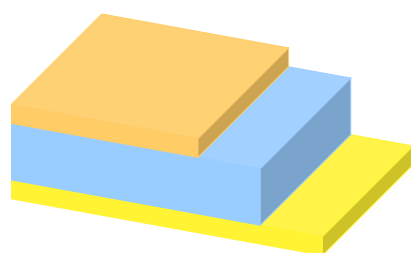


Type: CRF414 BOPP transparent, non-sealable and high heat resistant film 18 μm

CRF 414 is a co-extruded, plain, both sides treated and inner side high heat resistance hot slip modified biaxially oriented polypropylene film. This film provides excellent printability at high speed, excellent hot slip, high heat resistance (up to 185°C), good ink adhesion and good antistatic. CRF 414 can be used as a reverse printed top layer in multilayer laminates including PET film replacement.

We recommend to check the treatment prior to processing and if reduction is observed it is advisable to apply online treatment, high adhesive coating weight or a suitable primer.

Composition



- treated, printable OPP layer
- additive modified OPP core
- treated, hot slip modified OPP layer

Winding

Heat resistant side inside, printable side outside

Mechanical Properties

Property	Units	Nominal	Method
Nominal Thickness	μm	18	
Yield	m^2/kg	61.3	
Unit weight	g/m^2	16.3	Internal Method
Elongation at break	MD %	165	ASTM D882
	TD %	60	
Tensile strength	MD kg/cm^2	1,400	ASTM D882
	TD kg/cm^2	3,000	

Thermal Properties

Property	Units	Nominal	Method	Conditions
Heat shrinkage	MD %	4.0	ASTM D1204	120°C - 5min
	TD %	3.0		

Surface Properties

Property	Units	Nominal	Method	Conditions
Co-efficient of friction (A/A) dynamic		0.35	ASTM D1894	A = hot slip modified side
Surface tension both sides	dyne/cm	38	ASTM D2578	

Optical Properties

Property	Units	Nominal	Method	Conditions
Haze	%	3	ASTM D1003	
Gloss	gardner	94	ASTM D2457	at 45°

Barrier Properties

Property	Units	Nominal	Method	Conditions
Water vapor transmission rate (WVTR)	g/m2 *day	10	ASTM F1249	38°C - 90% RH
Oxygen transmission rate (OTR)	cm3/m2 *day	2000	ASTM D3985	23°C - 0% RH

Material limitations

This product is not intended for use in medical or pharmaceutical applications and should not be utilized for such purposes.

Storage conditions

Storage temperature to be maintained 25°C (+/-5°C) & relative humidity 55% (+/-5%) to avoid accelerated reduction of surface treatment level and material performance.

Disclaimer

The information given above is to the best of our knowledge and experience at the time of printing. We make no warranty, express or implied, for specific product properties or as to the fitness of the product for any specific use or purpose. The above data is purely for reader's consideration, investigation and verification and should be read in conjunction with the general conditions for sale.

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