

Propafilm™ RF100

Polypropylene Alloy

Innovia Films Ltd.

Message:

Low Heat-Seal Threshold Film

Biaxially oriented polypropylene (BOPP) film co-extruded on both sides with polyolefinic copolymers.

RF100/120 are suitable for use on high-speed overwrapping and form-fill-seal machines. They may be used for direct wrapping or collation, either as a single film or in a lamination.

General Information			
Features	Antistatic		
	Excellent Printability		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Weather Resistance		
	Heat Sealable		
	Low Moisture Vapor Transmission		
	Low Temperature Heat Sealability		
	Low Temperature Impact Resistance		
	Puncture Resistant		
Uses	Bi-axially Oriented Film		
	Packaging		
Forms	Film		
Processing Method	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			Internal Method
Flow : 129°C, 1 min	6.0	%	
Across Flow : 129°C, 1 min	-1.0	%	
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic, Outside/Outside	0.30		
vs. Itself - Static, Outside/Outside	0.40		
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	2500	µm	
Secant Modulus ¹			ASTM D882
1% Secant, MD	2490	MPa	
1% Secant, TD	2090	MPa	
Tensile Strength ²			ASTM D882
MD : Yield	230	MPa	

TD : Yield	190	MPa	
Tensile Elongation ³			ASTM D882
MD : Break	90	%	
TD : Break	130	%	
Seal Strength ⁴	0.14	N/mm	Internal Method
Seal Initiation Temperature ⁵	90.6 to 146	°C	Internal Method
Oxygen Permeability (23°C, 0% RH)	46	cm ³ · mm/m ² /atm/24 hr	ASTM F1927
Water Vapor Transmission Rate (38°C, 90% RH)	6.0	g/m ² /24 hr	ASTM F1770
Corona Treatment	38	dyne/cm	Internal Method
Yield	44.1	m ² /kg	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	95		ASTM D2457
Haze ⁶	2.0	%	ASTM D1003
NOTE			
1.	10%/min		
2.	50%/min		
3.	50%/min		
4.	225°F; 1sec; 15lb/in ² ; untreated to untreated		
5.	2secs; 15lb/in ² ; untreated to untreated		
6.	Wide angle; 2.5°		

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