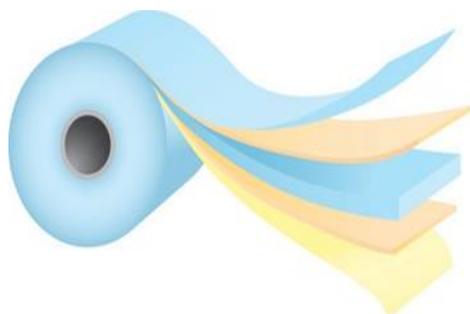


# Sealable Anti-fog BOPP Film

# OPLAR SAF (A11) Fresh Cut Fruit Grade



CORONA TREATED SKIN  
MODIFIED INTERMEDIATE LAYER  
OPP CORE LAYER  
MODIFIED INTERMEDIATE LAYER  
ANTIFOG HIGH HOT-TACK SKIN

## Product Features

- Good anti-fog effect for cold and hot application
- Good slip properties
- Good surface treatment retention
- Good adhesion of inks and adhesive on treated side

## Typical Applications

- Prevents fogging inside the packages
- For fruits and vegetables kept in refrigeration

OPLAR-SAF A11 grade is Sealable Anti-Fog BOPP film with anti-fog on the inside and printing on the outside. It exhibits excellent anti-fog effect on refrigeration. This film has a tendency to absorb moisture more than other films because of their structure. Therefore they must be protected from moisture as the shelf life is only 4 months.

Properties		Unit	Test Method	30	35	40
Nominal Thickness		Micron	Internal	30	35	40
Grammage		g/m <sup>2</sup>	ASTM D 1505	27.3	31.9	36.4
Yield		m <sup>2</sup> /kg	Internal	36.6	31.4	27.5
Density		g/cc	Internal	0.91		
<b>SURFACE PROPERTIES</b>						
Treatment Level	TI/TO	dyne/cm	ASTM D 2578	38	38	38
Haze		%	ASTM D 1003	2.5	3	3
Gloss		^45°	ASTM D 2457	85	85	85
Static Charge		kv	ASTM D 2578	<1		
Coefficient of Friction	UT/UT	Kinetic	ASTM D 1894	0.25	0.25	0.25
<b>MECHANICAL PROPERTIES</b>						
Tensile Strength	MD	kg/cm <sup>2</sup>	ASTM D 882	1300	1300	1300
	TD			2500	2500	2500
Tensile Elongation	MD	%	ASTM D 882	170	170	170
	TD			60	60	60
Elastic Modulus	MD	kg/cm <sup>2</sup>	ASTM D 882	18000	18000	18000
	TD			29000	29000	29000
<b>THERMAL PROPERTIES</b>						
Shrinkage	MD	%	Internal	4	4	4
	TD			2	2	2
Heat Seal Range	UT	°C	Internal	115-145		
Heat Seal Strength	UT/UT	g/25mm	130°C/2 Bar/1 Sec	400	400	400
<b>BARRIER PROPERTIES</b>						
WVTR		g/m <sup>2</sup> /day	ASTM F 1249	7	6	5
OTR		cc/m <sup>2</sup> /day	ASTM D 3985	2300	2100	2000
Antifog Result		Ratings	Internal	Excellent	Excellent	Excellent

MD: Machine Direction, TD: Transverse Direction, TI: Treated Inside, TO: Treated Outside, UT: Untreated

**Disclaimer:** The information provided above is based on SRF FLEXIPAK conclusive tests, which are indicative only and provided as guidelines. Customers are solely responsible for the end use in all respects. Customers should verify the suitability of the film for its end use. SRF FLEXIPAK gives no warranty or accepts liability for any loss and fitness of the product for any specific purpose. SRF FLEXIPAK reserves the right to change the technical data sheet at any time for enhancing the quality of the product without prior information.

**Storage Conditions** between 22-30°C & RH 40-60% is recommended in order to minimize the deterioration of the film properties in general. It is advisable to turn out the inventory on FIFO basis. The film should be conditioned in the operating environment for at least 24 hours before processing.

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