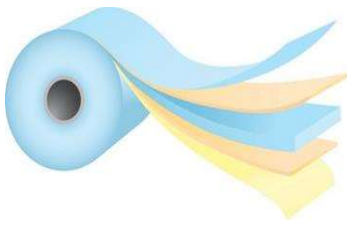


Non-Heat Sealable Clear

BOPP FILM

OPLAR

NCL-A02 Converting Grade



TREATED LAYER
 MODIFIED INTERMEDIATE LAYER
 PPOLYPROPYLENE CORE
 MODIFIED INTERMEDIATE LAYER
 UNTREATED LAYER

Product Features

- Outstanding clarity & gloss
- Good surface treatment retention
- Low COF provide excellent machinability
- Good performance on HFFS/VFFS machines
- Good anchorage of inks and lamination adhesive
- Suitable for food contact applications.

Typical Applications

Can be used as outside web of laminates /Higher micron can be used as mono- web

- Bakery (Biscuits/Cookie/crackers).
- Confectionery (Chocolates/gum/sugar)
- Chips/tea/coffee/pasta
- Industrial and household applications.

OPLAR NCL-A02 grade is Biaxially Oriented, Non-Heat Sealable 3 or 5 Layer Clear BOPP film with high gloss and one side corona treated. The film is specially designed for printing & lamination purpose and for the contact clarity and sparkling gloss.

PROPERTIES	Unit	Test Method (ASTM)	Typical Value							
Nominal Thickness	Micron	Internal	12	15	18	20	25	30	40	50
Grammage	g/m ²	D 1505	10.92	13.65	16.38	18.2	22.75	27.3	36.4	45.5
Yield	m ² /kg	Internal	91.58	73.26	61.05	54.95	43.96	36.63	27.47	21.98
Density	g/cc	Internal	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
OPTICAL PROPERTIES										
Haze (Max)	%	D 1003	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Gloss @60° (Min)	GU	D 2457	145	145	145	145	145	145	145	145
SURFACE PROPERTIES										
Treatment Level (Min)	TI/TO	Dyne/cm	D 2578	38	38	38	38	38	38	38
Kinetic COF (Max)	UT/UT	-	D 1894	0.45	0.45	0.45	0.45	0.45	0.45	0.45
MECHANICAL PROPERTIES										
Tensile Strength (Min)	MD	Kg/cm ²	D 882	1300	1300	1300	1400	1400	1400	1100
	TD			2700	2700	2700	2700	2700	2700	2700
Elongation (Max)	MD	%	D 882	190	190	190	190	190	200	210
	TD			60	60	60	60	60	60	60
THERMAL PROPERTIES										
Shrinkage (120°C/15 min)	MD	%	D 1204	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	TD	%		2.0	2.0	2.0	2.0	2.0	2.0	2.0

MD=Machine Direction, TD=Transverse Direction | TI=Treatment Inside, TO=Treatment Outside, UT=Untreated, TT= Both side Treated, TR = Treated

Notes: 1) Above properties can be modified to suit customer's requirement; 2) Unless otherwise specified, the values given above are nominal.

DISCLAIMER: The information provided above is based on SRF Ltd 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 Ltd gives no warranty or accepts liability for any loss and fitness of the product for any specific purpose. SRF Ltd 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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