

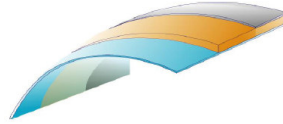
CPP LAMINATION GRADE (Cast Polypropylene)

Transparent; Co-extruded 3-layer film; One side corona treated

PROPERTIES

TYPICAL APPLICATIONS

- Excellent clarity and gloss
- Excellent hot tack
- Treated surface is receptive to inks and adhesives
- Excellent machinability on packaging lines
- Laminating substrate applications
- Printing: flexo, rotogravure, reverse printing in laminates
- Direct food packaging (e.g. pasta, bakery, etc.)
- Jumbo packs (e.g. snack food, diapers, etc.)
- Flower wrapping
- Board lamination (lamination of stationery items, documents and playing cards)



——— treated layer/non-heat sealable
 ——— core layer/homopolymer
 ——— sealing layer/heat sealable

STORAGE, HANDLING AND APPLICATION/RECOMMENDATIONS

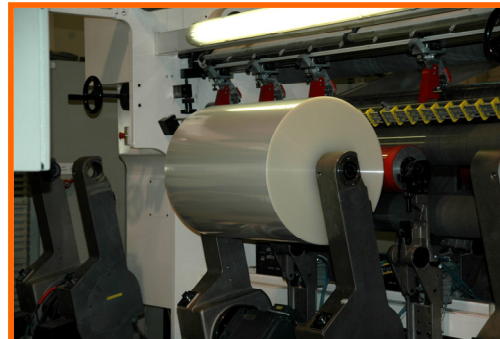
All films should be stored in a dry environment at a temperature under 30° C. If properly stored, the film will maintain consistent performance over a period of up to 6 months from the date of production and should be converted prior to this time. A prolonged period of storage may cause problems of thickness profile and blocking on account of the elastic memory of thermoplastic film. It is a fact that polypropylene films age with time and will exhibit deterioration in the wetting tension levels. For this reason it is recommended that film stocks are evaluated for ink adhesion prior to printing and if necessary retreated during conversion process to ensure optimal adhesion of inks and adhesives. It is also advisable to allow the film to reach room temperature at least 24 hours prior to use. Sealing properties of film deteriorate when corona treatment is present. Always check the treated side when using the film.

FOOD CONTACT

Our film fully meets the overall migration requirements and is therefore suitable for direct food contact.



CAST FILM EXTRUSION PROCESS

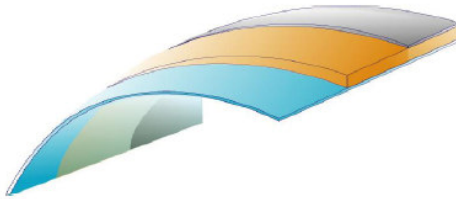


CPP LAMINATION GRADE FILM

Technical Data Sheet

CPP LAMINATION GRADE (Cast Polypropylene)

Transparent; Co-extruded 3-layer film; One side corona treated



- treated layer/non-heat sealable
- core layer/homopolymer
- sealing layer/heat sealable

PROPERTIES	UNIT	TEST METHOD	VALUES				
Nominal thickness	μm	SH	20	25	30	35	40
Weight per unit of area	g / m^2	ASTM D 1505	18.2	22.7	27.3	31.8	36.4
Density	g / cm^3	ASTM D 1505	0.91				
Yield	m^2 / kg	SH	55.0	44.0	36.6	31.4	27.5
Sealing Range	$^{\circ}\text{C}$	SH	120 $^{\circ}\text{C}$ - 140 $^{\circ}\text{C}$				
Coefficient of Friction(dynamic) Film / Film (T/NT)		ASTM D 1894	0.3				
Shrinkage	MD TD	%	1.0 1.0				
Tensile Strength (min)	MD TD	MPa	40 20	45 20	50 25	60 25	60 30
Elongation at Break (min)	MD TD	%	550 650	650 675	700 750	700 750	750 800
WVTR38 $^{\circ}\text{C}$ / 90% R.H	$\text{g} / \text{m}^2 \cdot \text{d}$	ASTM 1249	14.0	12.0	10.0	10.0	7.0
Wettability (min Treatment level)	mN / m	ISO 8296	> 38				
Gloss @ 45 $^{\circ}$	$\text{N} / 25.4 \text{ mm}$	ASTM D-2457	85	80	75	70	70
O.T.R. (23 $^{\circ}\text{C}$ & 0%RH)	$\text{cc} / \text{m}^2 / \text{day}$	ASTM D 3985	3650	3600	3550	3550	3500

The information contained herein is to be used only as guide for using our film. The specifications, properties and applications mentioned were based on reliable and standard laboratory testing procedures. Users of this film should make independent assessment of its suitability and applicability to their end use. Al Sharq Flexible Packaging does not offer any guarantee on the results and does not accept any liability arising out of the use of the information contained herein. Al Sharq Flexible Packaging reserves the right to change the technical data sheet at any time without prior information.