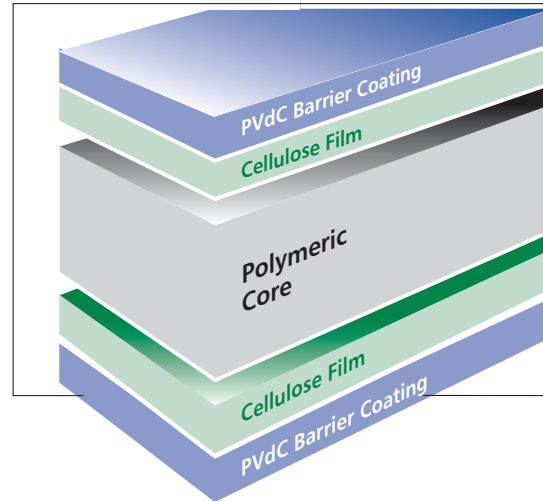


CelloPlus™

FEATURES – REINFORCED CELLOPHANE FILMS

CelloPlus films are a composite structure of 2 thin Cellophane films with a thin polymeric web in the center. The finished film is coated with PVdC on both sides.

- Currently available in 3 versions:
CelloPlus T - Transparent version.
CelloPlus W - White version.
CelloPlus M - Metallized version.
- Excellent barrier to moisture, gases and aromas.
- Good dead-fold characteristics.
- Resistant to oils and gases.
- Heat sealable on both sides.
- Both sides of the film are receptive to inks, adhesives and tear-tapes.
- Excellent durability and stability.
- High gloss.
- Anti-static.



APPLICATIONS

CelloPlus has been developed for a wide range of applications requiring high moisture and gas barrier. It has properties that compare favorably with classical laminations. Generally used as a single film for medium to large packs on vertical or horizontal form-fill-seal machines.

Particularly suitable for the packaging of snack foods, dried foods, nuts and coffee. It is also widely used for high quality bag making applications. Its deadfold and rigidity make it particularly suitable for block-bottom bags.

TECHNICAL PROPERTIES (TYPICAL VALUES)

PHYSICAL DATA

Property	Test Method	Test Conditions	Units	CelloPlus T	CelloPlus W	CelloPlus M
Thickness	UCB test		mil	1.7	2.1	1.6
Yield	UCB test		in ² /lb	12300	11200	11800
Permeability to: Water vapor Oxygen	ASTM E 96	100°F 90% RH	g/100in ² .24 hrs	<0.4	<0.4	<0.3
	ASTM F 1927	75°F 0-5% RH	cc/100in ² . 24hrs/atm	<0.07	<0.07	<0.02

MECHANICAL DATA

Property	Test Method	Test Conditions	Units	CelloPlus T	CelloPlus W	CelloPlus M
Tensile strength	ASTM D 882		kpsi	22	13	17.7
			MD	16	13	13.5
Elongation at break	ASTM D 882		%	30	32	30
			MD	85	75	110

THERMAL DATA

Property	Test Method	Test Conditions	Units	CelloPlus T	CelloPlus W	CelloPlus M
Sealing strength	UCB test	275°F, 0.5 sec, 10 psi	g(f)/1/2in	400	400	350

All properties are tested under standard laboratory conditions: 75 °F; 50% RH, unless otherwise stated.

MD Machine direction TD Transverse direction

CelloPlus™

ROLL SPECIFICATIONS

ROLL LENGTHS vs APPROXIMATE OUTSIDE DIAMETER

Film	Core Size (in)	Outside Diameter (in)	Approximate Linear Footage	Standard Widths (in)
CelloPlus T (123V58P)	3	9 ¹ / ₂	2900	1.5 - 46.5
	3	13	5750	2 - 46.5
	3	18	11500	10 - 46.5
	6	18 ³ / ₄	11500	10 - 46.5
	6	22 ¹ / ₂	17200	10 - 46.5
CelloPlus W	3	9 ¹ / ₂	2400	1.5 - 44.5
	3	13	4800	2 - 44.5
	3	18	9600	10 - 44.5
	6	18 ³ / ₄	9600	10 - 44.5
	6	22 ¹ / ₂	14400	10 - 44.5
CelloPlus M (118V58F)	3	9 ¹ / ₂	3000	1.5 - 44.5
	3	13	6000	2 - 44.5
	3	18	12000	10 - 44.5
	6	18 ³ / ₄	12000	10 - 44.5
	6	22 ¹ / ₂	18000	10 - 44.5

FILM STORAGE & HANDLING

To maintain the high quality of these products during storage it is recommended that all UCB cellulose films should be stored in their original wrapping away from any source of local heating or direct sunlight.

Recommended conditions of storage are:

Temperature: 60-75°F

Relative Humidity: 35-55%

CelloPlus films should be converted within 6 months from the date of manufacture and stocks should be used in rotation according to date of delivery.

Films should be allowed to reach operating room temperatures for 24 hours before use.

FOOD CONTACT

CelloPlus films, in common with all Cellophane PVdC copolymer coated films, are manufactured to meet current food contact regulations relating to regenerated cellulose films. For specific enquiries, please refer to literature reference A120 or contact our Technical Services Department.

HEALTH & SAFETY GUIDELINES

For Health and Safety information, please refer to literature reference A190.

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