

## K14\_K20 ACETATE GLOSS

UFG Article code 115xxxxxxx61 / 125xxxxxxx61

**Profile:** K Acetate Gloss is a film made starting from cellulose or cotton, two naturally renewable resources. The cellulose comes from wood pulp derived from managed and certified plantations, with typically more trees planted annually than are harvested. This film does not contain any derivative from petroleum or GMO starch, it is safe to incinerate (releases only carbon dioxide and water) and decomposes in less than 8 weeks. It is certified according to European standard EN 13432 and American ASTM D 6400 as the biodegradable and compostable in home conditions (compost yard).

## TECHNICAL PROPERTIES

PHYSICAL PROPERTIES	METHOD	UNIT	Values	
Thickness	Internal	Microns	14	20
Unit weight	Internal	g/m <sup>2</sup>	18,48	26.40
Yield	Internal	m <sup>2</sup> /kg	54,11	37.88
Surface tension (Gloss side / Matt side)	Internal	Dyne/cm	38-42	
Equilibrium moisture content, (23°C and 50% RH)		%	Circa 2%	
Dynamic Friction Coefficient (COF).	Dynamic		0.35-0.55	

OPTICAL PROPERTIES	METHOD	UNIT	Values	
Transparency	ASTM D 1746	%	92,1	92,4
Gloss 20°/ 60°/ 85°	ASTM D 523	%	129,4/142,9/119,5 ---133,2/144,3/121	
Haze	ASTM D 1003	%	0,7	
Refractive-index	Internal	-	1.485	

MECHANICAL PROPERTIES	METHOD	UNIT	Values	
Tensile strength	MD*	ASTM D 882	Nmm <sup>-2</sup>	80-100
Elongation at break	MD*	ASTM D 882	%	25-45
E-Modulus		ASTM D 882	Nmm <sup>-2</sup>	2000-2500
Tear Initiation	MD*	ASTM D 1938	N	0.010 0,035
Tear Propagation	MD*	ASTM D 1938	N	0.006 0,020

MECHANICAL PROPERTIES	METHOD	UNIT	Values	
Linear shrinkage, (115°C 10 Mins)	MD* Internal	%	1-1.5	
Dimensional stability (20 hrs 80°C 95% RH)	MD*	%	2.15	
Softener temperature		°C	~ 140	
Glass transition temperature		°C	~ 120	

BARRIER PROPERTIES	METHOD	Values	
Moisture vapour transmission rate (gm <sup>-2</sup> day <sup>-1</sup> )			
M.V.T.R. (25°C & 75% RH)		2283	> 1279
M.V.T.R. (38°C & 90% RH)		n/a	
O.T.R. (ccm <sup>-2</sup> day <sup>-1</sup> ) (23°C & 0%RH)		n/a	

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CHEMICAL PROPERTIES	METHOD
Chemical resistance	ASTM D 543 87
Low resistance to Ketones; Attacked by esters, moderate to concentrated strong acid and bases	
Resistance to non-polar solvents.	

### Special features:

Anti-fog, good glue-ability, good planarity, microwave use.

### Applications:

Cardboard box windows, cosmetic packaging, confectionary packaging, food contact and other packaging applications.

### Certificated for:

Food contact approval,  
Din Certco EN 13432 certified,  
BPI Certified ASTM D6400,  
Vincotte OK Home Compost approved.

On demand UltralenFilm GmbH share further guidelines concerning lamination, adhesive and inks.

Normally acetate film should be processed below 80°C

As a general rule the lower the temperature the better whilst maintaining acceptable performance

**Note:** The behaviour of acetate is different from other films such as polypropylene (OPP) and polyester (PET) films, it is recommended to take specific precautions and care when using acetate film, this film is extra sensitive and should be handled with Extreme care and delicacy.

### Recommended storage conditions:

Acetate is a delicate material and you should never leave partially used rolls out of their original packaging. If only part of a roll is used in a lamination run, the residual roll should be carefully re-wrapped in the original packaging.

It is highly recommended to protect the Acetate rolls in their original packaging of polyethylene film (LD-PE) and placed suspended or in a box. Do not store a roll on its end.

Store reels away from heat sources and direct sunlight, with temperatures between 15 ° and 25 ° and a relative humidity between 30% & 60%.

### Information:

These values given are given merely as guidelines; it is the user's responsibility to check the film is suitable for the application intended. Ultralen Film GmbH does not assume responsibility for the customer applications and processing of the film.

**Warranty:** This product has a warranty of 180 days from the date on the invoice; claims after 180 days from the date on the invoice cannot be accepted. Please always keep the full label details of the roll available for warranty

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