

**AKES**

*Plastic film applications*

## Technical data sheet

### CX2K - BOPP Film : Heat sealable coextruded film

#### **Description**

Transparent bi-oriented polypropylene film, both sides sealable with a broad sealing range. The seal initiation temperature (S.I.T) is  $\approx 105$  °C on the non-treated side.

#### **Properties**

- Excellent hot tack
- Good moisture barrier.
- Superior optical properties
- Outstanding printing characteristics

#### **Applications**

- These film are designed for use in HFFS, VFFS and overwrapping applications either as a single-web (*thickness: 25, 30, 35, 40 and 50  $\mu\text{m}$* ) or in laminated (*thickness: 15, 18 and 20  $\mu\text{m}$* ) form to itself or to other substrates.
- Laminates can be realised by adhesive solvent/solventless or extrusion lamination.
- Available with *Exterior* treatment

#### **Food contact**

Akes BOPP complies with the requirements of EEC directives and FDA regulation. Specific documentation and migration test results are available upon request.

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**TYPICAL VALUES**

PROPERTIES	UNITS	TEST METHODS	TYPICAL VALUES						
			Microns	15	18	20	25	30	35
GRAMMAGE	g/m <sup>2</sup>	DIN 53352	13.65	16.38	18.20	22.75	27.30	31.85	36.40
YIELD	m <sup>2</sup> /Kg	DIN 53352	73.26	61.05	54.95	43.96	36.63	31.40	27.47
<b>TENSILE PROPERTIES</b>									
Tensile strength at break MD	N/mm <sup>2</sup>		150	150	150	140	140	130	130
Elongation at break MD	%	ASTM D882	180	180	180	200	200	220	220
Tensile Modulus 1% TD	N/mm <sup>2</sup>	ASTM D882	3800	3800	3800	3800	3800	3800	3800
Elastic Modulus 1% MD	N/mm <sup>2</sup>		2000	2000	2000	2000	2000	2000	2000
Tensile strength TD	N/mm <sup>2</sup>	ASTM D882	290	290	290	290	290	290	290
Elongation at break TD	%		60	60	60	60	60	60	60
<b>OPTICAL PROPERTIES</b>									
Gloss 45°	%	ASTM D2457	82	82	82	82	82	82	82
Haze (1)	%	ASTM D1003	2.0	2.0	2.0	2.5	2.5	2.8	2.8
<b>THERMAL STABILITY</b>									
Shrinkage (hot air 130 °C -5') MD	%	ASTM D 1204		<= 5					
TD	%			<=3					
<b>COEFFICIENT OF FRICTION (2)</b>									
Untr / Untr dynamic		ASTM D1894		0,35					
Untr / Met dynamic		DIN 53375		0,25					
<b>SEALING</b>									
Sealing threshold Untr/Untr	°C	OPMA TC4	105-140	105-140	105-140	105-140	105 -140	105-140	105-140
Seal strength 130 °C	g/cm	OPMA TC4	> 150	> 150	> 170	> 180	> 200	> 200	> 200
<b>PERMEABILITY</b>									
OTR 23°C 0% r.h.	cc/(m <sup>2</sup> d atm)	ASTM D3985	2200	2000	1900	1600	1300	1100	950
WVTR 37.8°C 100% r.h.	g/(m <sup>2</sup> d)	ASTM F1249	8	7	6.5	6	5	4	3.5
WVTR 23°C 85% r.h.	"	DIN 53122	1.7	1.5	1.4	1.3	1	0.9	0.7
<b>TREATMENT</b>									
Surface tension	dynes/cm	ASTM D2578	38						

- <sup>(1)</sup> Due to additives migration this value is subject to change by ageing depending on storage conditions and thermal history.
- <sup>(2)</sup> After conditioning 24 h at 50 °C

### **Guidelines for use of OPP Film**

No special conditions are required for the storage of OPP films but it is recommended that dry conditions below 30 °C are employed to minimise any deterioration of surface discharge treatment level.

The film does not contain antistatic agents for this reason it is advisable that anti-static equipment is always fitted to machines, particularly in low humidity conditions.

All OPP films should be allowed to reach operating room temperature for 24 hours before use.

Polypropylene films characteristics are maintained for 6 months from the date of delivery.

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