



## Ashkal JL450 - Sealing Layer PE Film

Application : Liquid juices / Concentrated powder formulations

Suitable with 6-12 mic Al Foil/MPET/PET films



Ashkal JL450 is a specially designed film recommended as a sealing layer for juice packaging liquid or concentrated powder form. The design principle includes, but is not limited to its performance on modern high-speed FFS machines. Most modern filling machines operate at high speeds therefore film to metal friction becomes a very critical factor besides the sealing performance at designed sealer temperature, pressure & dwell time. In addition to sealing performance, the real test of the packaging design is in the hands of the consumer. Ashkal JL450 is designed for easy and clean tear without any deformation or elongation of the LDPE layer in the laminate thus avoiding the formation of microfibrinous strands keeping the contents safe from any risk of such contamination while emptying the contents from the laminate/package.

### Key Features / Advantages

- Superior seal through contamination performance - Lowers, line wastage/risk of pilferage of product cartons during shipping/storage.
- Fully compatible with any type of lamination with Al Foil/MPET films - Aids to enhance O<sub>2</sub> barrier leading to the longer shelf life of the product.
- Compliant with all relevant directives on migration and direct food contact issued by EU, UK, US, Canada - Your products can be exported to any of these regions.

PROPERTIES	TEST METHOD	TYPE	Unit	Typical value								
FILM THICKNESS	ASHKAL METHOD	N/A	MICRON	25	30	40	50	60	70	80	90	100
			Tolerance +/-	8%	8%	8%	7%	7%	5%	5%	5%	5%
WIDTH	ASHKAL METHOD	N/A	MM	+5,-0	+5,-0	+5,-0	+5,-0	+5,-0	+5,-0	+5,-0	+5,-0	+5,-0
FILM DENSITY	ASHKAL METHOD	N/A	gm/cm <sup>3</sup>	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
GRMMAGE	ASHKAL METHOD	N/A	gm/m <sup>2</sup>	23.00	27.60	36.80	46.00	55.20	64.40	73.60	82.80	92.00
TENSILE STRENGTH	ASTM D-882	MD	Kg/cm <sup>2</sup>	140	170	180	200	210	220	240	260	260
		TD		120	180	160	190	200	210	220	240	250
ELONGATION @ BREAK	ASTM D-882	MD	%	280	300	350	400	450	450	500	500	550
		TD	%	300	350	400	450	500	500	600	650	650
TREATMENT LEVEL	ASHKAL METHOD	N/A	Dynes/Cm	> 38	> 38	> 38	> 38	> 38	> 38	> 38	> 38	> 38
COEFFICIENT OF FRICTION	ASTM D-1894	UNTREATED (F/M)	DYNAMIC	0.15 to 0.25	0.15 to 0.25	0.15 to 0.25	0.15 to 0.25	0.15 to 0.25	0.15 to 0.25	0.15 to 0.25	0.15 to 0.25	0.15 to 0.25
COEFFICIENT OF FRICTION	ASTM D-1894	UNTREATED (F/F)	DYNAMIC	0.10 to 0.20	0.10 to 0.20	0.10 to 0.20	0.10 to 0.20	0.10 to 0.20	0.10 to 0.20	0.10 to 0.20	0.10 to 0.20	0.10 to 0.20
DART IMPACT**	ISO 7765-1	FILM SURFACE	Gm.	> 3.0 g/μ	> 3.0 g/μ	> 3.0 g/μ	> 3.0 g/μ	> 3.0 g/μ	> 3.0 g/μ	> 3.0 g/μ	> 3.0 g/μ	> 3.0 g/μ
OPACITY	ASHKAL METHOD	NA	%	NA	NA	NA	NA	NA	NA	NA	NA	NA
ROLL OD ( Max.)	ASHKAL METHOD	N/A	MM	800 mm	800 mm	800 mm	800 mm	800 mm	800 mm	800 mm	800 mm	800 mm
CORE ID	ASHKAL METHOD	N/A	MM	152/76	152/76	152/76	152/76	152/76	152/76	152/76	152/76	152/76

\*\*Dart Impact values depends of film width and can vary between 2.0 g/μ to > 3.0 g/μ

Maximum Film Thickness 200mic & TDS available on request.

### STORAGE, HANDLING AND APPLICATION/RECOMMENDATIONS:

Storage must be in a dry environment away from direct sunlight at temperature below 30 oC.

The film will maintain consistent performance over a period of up to 6 months from date of manufacture and should be converted prior to this time. Prolong storage may cause problems of machine ability, function ability or blocking on account of elastic memory of thermoplastic films. Before using this product, customer and other users should make their own independent determination that this product is suitable for their intended use and is solely responsible for all determinations regarding use of the material.

### FOOD CONTACT COMPLIANCE:

Our film fully meets the overall migration requirements and is therefore Suitable for direct food contact and it's comply with EC Directive 94/62/EC, UK Statutory Instrument 2003 No. 1941, As amended, and the CONEG Regulations (USA/Canada).

### DECLARATION:

While the information provided is accurate to the best of our knowledge as of the date compiled, it is limited to the information as specified. Ashkal (FZE), reserves the right to modify these data if necessary without prior notice and nothing herein is not intended nor should be construed as a warranty, expressed or implied. Ashkal (FZE). Also disclaims liability for any loss or damages that may occur from the use of this information