



## TECHNICAL DATA SHEET

(BIAXIALLY ORIENTED POLYESTER FILM)

**Product Description:**

F-UVP is a transparent UV stabilized polyester film .  
It is one side corona treated or both side untreated

**Applications:**

Flexible packaging application  
For labels- to protect printing from UV Rays  
For Agriculture purpose  
UV protect packaging

**Key Features:**

Very good clarity & transparency  
Excellent machinability & handling properties  
Outstanding Exterior stability when exposed to sunlight

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE						
			12	15	23	38	45	50	
THICKNESS	Internal	Micron (Gauge)	12	15	23	38	45	50	
			48	60	92	152	180	200	
FILM DENSITY	D-1505	gm/cc	1.4	1.4	1.4	1.4	1.4	1.4	
GRAMMAGE	Internal	gm/m <sup>2</sup>	16.8	21	32.2	53.2	63	70.0	
YIELD	Internal	m <sup>2</sup> /kg in <sup>2</sup> /lb	59.52	47.6	31	18.79	15.87	14.28	
			41934	33550	21876	13238	11180	10060	
TREATMENT LEVEL # Corona treated Side (Min)	D-2578	dyne/cm	52	52	52	52	52	52	
COEFF OF KINETIC FRICTION ((Corona treated to Untreated Side) (Untreated to Untreated side)	D-1894	-	(Max)	0.50	0.50	0.50	0.45	0.45	0.45
				0.45	0.45	0.45	0.40	0.40	0.40
HAZE (Max)	D-1003	%	4.0	4.0	4.5	5.0	5.0	5.5	
UV Absorbance @ 355 nm (Min)	Internal	%	1.4	1.5	1.8	1.8	1.8	1.8	
TENSILE STRENGTH AT BREAK	D-882	Kg/cm <sup>2</sup>	MD*	1900	1900	1900	1750	1750	1750
			TD*	2000	2000	2000	2000	2000	2000
TENSILE STRENGTH AT BREAK	D-882	(Psi)	MD*	27000	27000	27000	25000	25000	25000
			TD*	28500	28500	28500	28500	28500	28500
ELONGATION AT BREAK	D-882	%	MD	105	105	115	120	125	125
			TD	85	85	90	90	90	90
LINEAR SHRINKAGE (Max.) (30 Minute at 150 <sup>0</sup> C)	D-1204	%	MD	3.0	3.0	3.0	3.0	3.0	3.0
			TD	1.0	1.0	1.0	1.0	1.0	1.0
W.V.T.R.(38 <sup>0</sup> C & 90%RH)	F-1249	gm/m <sup>2</sup> /day	45	40	30	20	18	16	
		(gm/100in <sup>2</sup> /day)	2.9	2.6	2.0	1.3	1.2	1.0	
O.T.R. (23 <sup>0</sup> C & 0%RH)	D-3985	cc/m <sup>2</sup> /day	130	110	80	70	55	45	
		(cc/100in <sup>2</sup> /day)	8.5	7.1	5.2	4.5	3.5	2.9	

Ref no QAD UFLI S/16 -F56/1

\*MD = MACHINE DIRECTION \*TD = TRANSVERSE DIRECTION

# The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

**STORAGE & HANDLING:**

FLEXPET™ need to be stocked in a closed warehouse and should not be exposed to direct sunlight or light sources and from humidity. It is recommended to store below 35°C in dry place.

**FOOD CONTACT:**

FLEXPET™ complies with EC and FDA regulations. Specific document and MSDS are available on request.

**DISCLAIMER:**

It is the responsibility of our customer to determine that their use of our product(s) is safe, lawful, and technically suitable in their intended applications. The Values given in the technical data sheet represent typical values based on the best of our knowledge as on date when the data was compiled. It is offered solely to provide possible suggestions for your own experimentation and not as a guarantee for the material supplied. The user is solely responsible for the end use of the product and needs to perform their own tests to confirm the product suitability / compatibility in all respects. Flex Gives no warranty or accept liability for any loss and fitness of the product for any specific purpose. Flex reserves the right to change the technical data sheet at any time for enhancing the quality of the products without prior information.

\*\*TDS issued on 05-02-2018. All previous version of this grade are invalid.

Website: [www.flexfilm.com](http://www.flexfilm.com)