



TECHNICAL DATA SHEET

Product Description:

F-UPF is a transparent polyester film

It is one side coated modified surface and other side

is untreated or corona treated

Applications:

Printing, lamination & metallization

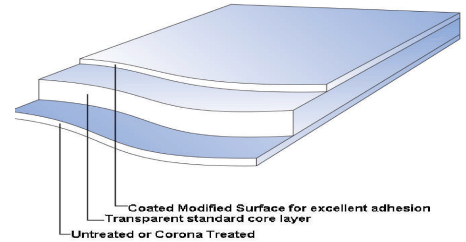
Hot fil, Pasteurization, Sterilization & Retort application**

** Selection of specific ink & adhesive designed for retort application

Key Features:

- ▶ Very good clarity & transparency
- ▶ Excellent machinability & handling properties
- ▶ Universal film having modified surface which provides excellent adhesion with various types of ink and adhesive
- ▶ Excellent bonding with metal

Film Structure



PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE									
			8	9	10	12	15	19	23	36	50	
THICKNESS	Internal	Micron (Gauge)	8	9	10	12	15	19	23	36	50	
FILM DENSITY	D-1505	gm/cc	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
GRAMMAGE	Internal	gm/m ²	11.2	12.6	14.0	16.8	21.0	26.6	32.2	50.4	70.0	
YIELD	Internal	m ² /kg in ² /lb	89.28 62901	79.36 55912	71.42 50318	59.52 41934	47.62 33550	37.59 26483	31.05 21876	19.84 13978	14.28 10060	
TREATMENT LEVEL # (Modified layer Side) (Corona treated side)	(Min) D-2578	dyne/cm	48	48	48	48	48	48	48	48	48	
COEFF OF KINETIC FRICTION (Coated to untreated) (Coated to corona)	(Max) D-1894	-	0.50 0.55	0.50 0.55	0.50 0.55	0.50 0.55	0.50 0.55	0.50 0.55	0.50 0.55	0.45 0.50	0.45 0.50	
HAZE (max)	D-1003	%	4.0	4.0	4.0	4.0	4.0	4.0	4.5	5.0	5.5	
TENSILE STRENGTH AT BREAK	MD* TD*	Kg/cm ² (Psi)	1900 2000	1900 2000	1900 2000	1900 2000	1900 2000	1900 2000	1900 2000	1750 2000	1750 2000	
TENSILE STRENGTH AT BREAK	MD* TD*		27000 28500	27000 28500	27000 28500	27000 28500	27000 28500	27000 28500	27000 28500	27000 28500	25000 28500	25000 28500
ELONGATION AT BREAK	MD TD	D-882	%	90 80	90 80	100 80	105 85	105 85	110 85	115 90	120 90	125 90
LINEAR SHRINKAGE (Max.) (30 Minute at 150°C)	MD TD	D-1204	%	3.0 1.0								
W.V.T.R.(38°C & 90%RH)	F-1249	gm/m ² /day (gm/100in ² /day)	50 3.2	50 3.2	50 3.2	45 2.9	40 2.6	35 2.3	30 2.0	20 1.3	16 1.0	
O.T.R. (23°C & 0%RH)	D-3985	cc/m ² /day (cc/100in ² /day)	155 10.1	155 10.1	155 10.1	130 8.5	110 7.1	90 5.8	80 5.2	70 4.5	45 2.9	

Ref no QAD UFLI S/12 - F44/1

*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. FLEXPET™ is suitable for use within 9 month from date of manufacturing, only if material is stored in recommended condition.

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 19-09-2017. All previous version of this grade are invalid.

Website: www.flexfilm.com