

TECHNICAL DATA SHEET
Product Description:

F-ELE is a transparent polyester film

It is both side untreated

Application:

Electrical insulation

Motor winding, Cable over wrap

Leatheroid lamination

Electrical insulation tape

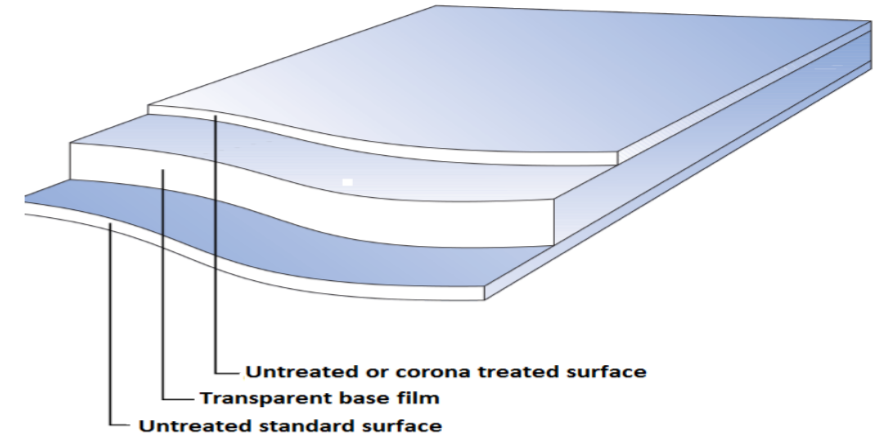
Key Features:

Excellent dielectric properties

High break down voltage

Excellent machinability & handling properties

High electrical receptivity

Film Structure


PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE					
			12	15	19	23	36	50
THICKNESS	Internal	Micron	12	15	19	23	36	50
		(Gauge)	48	60	76	92	144	200
FILM DENSITY	D-1505	gm/cc	1.4	1.4	1.4	1.4	1.4	1.4
GRAMMAGE	Internal	gm/m ²	16.8	21.0	26.6	32.2	50.4	70.0
YIELD	Internal	m ² /kg	59.52	47.62	37.59	31.05	19.84	14.28
		in ² /lb	41934	33550	26483	21876	13978	10060
COEFF OF KINETIC FRICTION (Max) (Plain to plain)	D-1894	-	0.50	0.50	0.50	0.50	0.45	0.45
HAZE (Min)	D-1003	%	3.5	4.0	4.5	5.0	6.0	7.0
TENSILE STRENGTH AT BREAK	MD*	Kg/cm ²	1900	1900	1900	1900	1750	1750
	TD*		2000	2000	2000	2000	2000	2000
TENSILE STRENGTH AT BREAK	MD*	(Psi)	27000	27000	27000	27000	25000	25000
	TD*		28500	28500	28500	28500	28500	28500
ELONGATION AT BREAK	MD	D-882	105	105	110	115	120	125
	TD		85	85	90	90	90	90
LINEAR SHRINKAGE (Max.) (30 Minute at 150°C)	MD	D-1204	<3.0					
	TD		<1.0					
W.V.T.R.(38°C & 90%RH)	F-1249	gm/m ² /day	45	40	35	30	20	16
		(gm/100in ² /day)	2.9	2.6	2.3	2.0	1.3	1.0
O.T.R. (23°C & 0%RH)	D-3985	cc/m ² /day	130	110	90	80	70	45
		(cc/100in ² /day)	8.5	7.1	5.8	5.2	4.5	2.9

Ref no QAD UFLI S/10 - F12/1

*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 16-03-2018. All previous version of this grade are invalid.**

 Website: www.flexfilm.com