

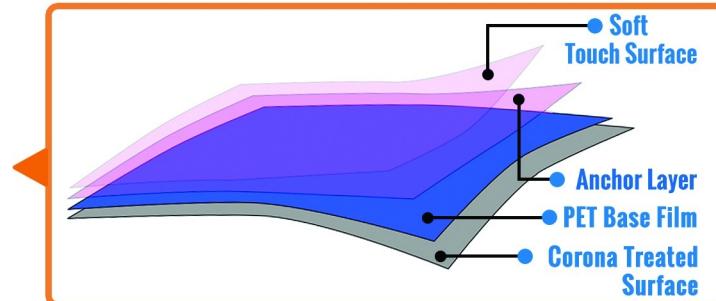
F-STF ULTRA SOFT SUPER DURABLE - BOPET FILM

Product Description

F-STF film has an engineered-micro surface texture giving a unique and luxurious feel. Suitable as a outer web in many packaging laminations, F-STF film gives brand owners a new capability in the production of consumer centric packaging. The backside of F-STF is easily printable with **traditional converter inks or new digital print technologies**.

Superior Tactile Properties

- Soft and luxurious surface
- Heat and scuff resistance
- Water resistant
- Ultra low gloss
- Most unique surface in the industry



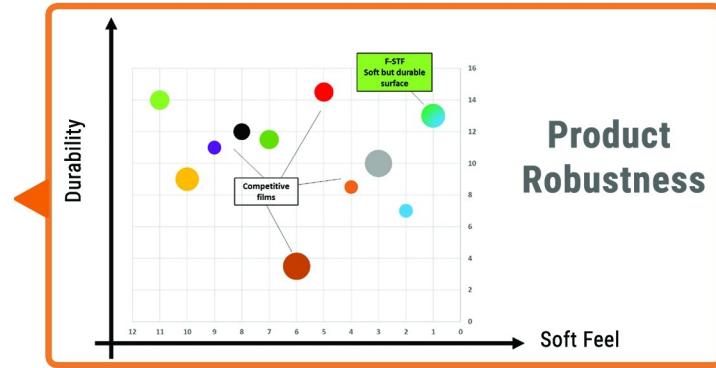
CAGR2022

Tactile Market Highest CGAR!



Improved Robustness in Laminations

- Superior to commodity matte surface films
- Improved scuff resistance
- No film blocking, higher throughput
- Enhanced surface durability
- Converts at speed comparable to Standard BOPET



Improved Touch and Feel Over Commodity Matte Grades

- Velvety soft and luxurious surface
- Impressive shelf appeal to customer
- Offers brand owners to increase market share

Value Proposition

Key Features

- High level of tactile properties
- Increased yields and reduced costs
- Self-healing surface
- Broad regulatory clearances
- Excellent matte homogeneity / dispersion

Applications

- Label
- Graphic Advertising Banners
- Decorative Packaging
- High End Stationery Products

Material	Gloss	Haze	Whiteness	Surface Hardness
	GU	%		H
F-STF	<10	90	High	HB
F-MAT	40	45	Moderate	2-3
F-MSH	28	70	Moderate	2-4

Attribute	Typical Properties	Notes
Thickness	14 μ m	
Surface Gloss	<10 GU	
Surface Hardness	H/HB	
MD/TD Shrinkage	3.0/3.0 %	150C/30 min

Product Description:

➤ F-STF is a soft touch / velvet feel matte BOPET film

➤ The film is specially designed to laminate high quality graphic media with a velvet feel similar to peach skin

Application:

➤ Luxury Packaging

➤ Label

➤ Graphic Advertising Banners

➤ High end stationery products like diary & book covers

Key Features:

➤ Excellent matte homogeneity / dispersion

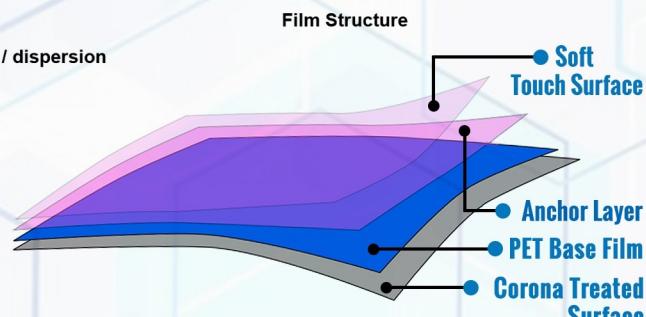
➤ Excellent soft velvet feel

➤ High haze (>90%)

➤ Low gloss on matte side

➤ Excellent contact clarity

➤ Good scratch resistance



PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUES	
THICKNESS	Internal	Micron	14	25
		Gauge	56	100
YIELD		m ² /kg	50.29	29.02
		in ² /lb.	35365	20400
SURFACE TENSION (range) (Soft Touch "Matte" Surface) (Corona Treated Surface)	D7490-13	Dyne/cm (contact angle method)	(Greater than) >50 (Greater than) >40	
COF (max) (One side to the other)	D-1894	-	1.00	
HAZE (min)	D-1003	%	90.0	
COLOR (range)	D65 / 10°	b*	0 ± 1	
TENSILE STRENGTH AT BREAK (min)	MD	D-882	1900	1900
	TD		2000	2000
	MD		27000	27000
	TD		28500	28500
ELONGATION AT BREAK (min)	MD		90	115
	TD		80	90
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	D-1204	3.0	
	TD		3.0	
GLOSS (range) (Soft Touch "Matte" Surface)	D-2457	GU	6-12	
COATING HARDNESS (range)	D-3363	-	HB - H	
COATING ANCHORAGE	D-3359	Internal	PASSES TEST	
AVAILABLE WIDTH (max)	-	Inches	79	

STORAGE & HANDLING

FLEXPET™ needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, FLEXPET™ is suitable for use within 6 month from the date of manufacturing.

FOOD CONTACT

Specific documents and SDS are available on request. Careful Web handling is critical. Recommend backside of film retreated with corona before printing.

NOTE:**DISCLAIMER**

It is the responsibility of our customers 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 on the 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 Films (USA) Inc. gives no warranty nor accepts 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.