

**TECHNICAL DATA SHEET**
**(BIAXIALLY ORIENTED POLYESTER FILM)**
**Product Description:**

F-XLR-C & C1 is a ultra clear polyester film  
It is one side chemically primed other side corona treated or untreated

**Application:**

Conversion

Printing & lamination

Metallization, Solvent & water base coating

Embossing & Holograms

**Key Features:**

Very High transparency & clarity

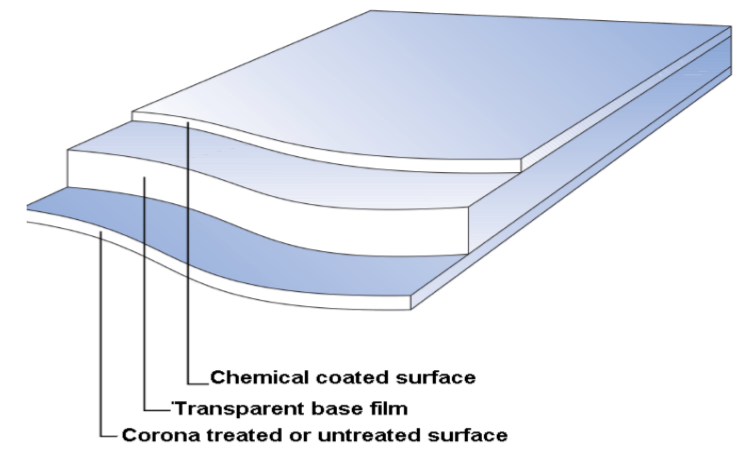
One side chemical coating provide excellent adhesion with various inks & adhesives

Out side corona treated for improved bond with outer substrate

Excellent machinability & handling properties

Excellent metal adhesion

Not suitable for hot filling , sterilization and pasteurization

**Film Structure**


| PROPERTIES  | TEST METHOD (ASTM) | UNIT                              | TYPICAL VALUE |       |       |
|---|--------------------|-----------------------------------|---------------|-------|-------|
|   |                    |                                   | 12            | 23    | 36    |
| <b>THICKNESS</b>  | <b>Internal</b>    | <b>Micron (Gauge)</b>             | 12            | 23    | 36    |
| <b>FILM DENSITY</b>   | <b>D-1505</b>      | <b>gm/cc</b>                      | 1.4           | 1.4   | 1.4   |
| <b>GRAMMAGE</b>   | <b>Internal</b>    | <b>gm/m<sup>2</sup></b>           | 16.8          | 32.2  | 50.4  |
| <b>YIELD</b>  | <b>Internal</b>    | <b>m<sup>2</sup>/kg</b>           | 59.52         | 31.05 | 19.84 |
|   |                    | <b>in<sup>2</sup>/lb</b>          | 41934         | 21876 | 13978 |
| <b>TREATMENT LEVEL # (Min)</b><br>(Chemical coated Side)            | <b>D-2578</b>      | <b>dyne/cm</b>                    | 60            | 60    | 60    |
| (Corona side)   |                    |                                   | 52            | 52    | 52    |
| <b>COEFF OF KINETIC FRICTION (Max)</b><br>(Coated to plain)         | <b>D-1894</b>      | <b>-</b>                          | 0.50          | 0.45  | 0.45  |
| (Coated to corona side)   |                    |                                   | 0.55          | 0.50  | 0.50  |
| <b>HAZE (Max)</b>   | <b>D-1003</b>      | <b>%</b>                          | 1.0           | 1.1   | 1.3   |
| <b>TENSILE STRENGTH AT BREAK</b>                                    | <b>MD*</b>         | <b>Kg/cm<sup>2</sup></b>          | 1900          | 1900  | 1750  |
|   | <b>TD*</b>         |                                   | 2000          | 2000  | 2000  |
| <b>TENSILE STRENGTH AT BREAK</b>                                    | <b>MD*</b>         | <b>(Psi)</b>                      | 27000         | 27000 | 25000 |
|   | <b>TD*</b>         |                                   | 28500         | 28500 | 28500 |
| <b>ELONGATION AT BREAK</b>  | <b>MD</b>          | <b>D-882</b>                      | 105           | 115   | 120   |
|   | <b>TD</b>          |                                   | 85            | 90    | 90    |
| <b>LINEAR SHRINKAGE (Max.)</b><br>(30 Minute at 150 <sup>0</sup> C) | <b>MD</b>          | <b>D-1204</b>                     |               | < 3.0 |       |
|   | <b>TD</b>          |                                   |               | < 1.0 |       |
| <b>W.V.T.R.(38<sup>0</sup>C &amp; 90%RH)</b>                        | <b>F-1249</b>      | <b>gm/m<sup>2</sup>/day</b>       | 45            | 30    | 20    |
|   |                    | <b>(gm/100in<sup>2</sup>/day)</b> | 2.9           | 2.0   | 1.3   |
| <b>O.T.R. (23<sup>0</sup>C &amp; 0%RH)</b>                          | <b>D-3985</b>      | <b>cc/m<sup>2</sup>/day</b>       | 130           | 80    | 70    |
|   |                    | <b>(cc/100in<sup>2</sup>/day)</b> | 8.5           | 5.2   | 4.5   |

Ref no QAD UFLI S/10 - F31/1

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

C = Chemical coating C1 = One side chemical other side corona treated

# 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 11-02-2015. All previous version of this grade are invalid.

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