

# R-UPF

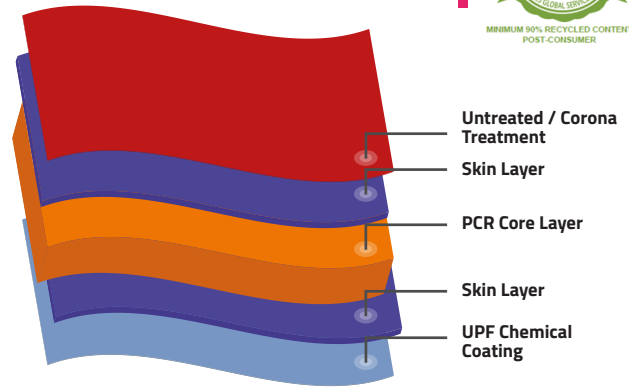
## UPF CHEMICAL COATED PCR BASED FILM

R-UPF is a transparent BOPET film. The film is one side UPF Chemical Coated with the other side being Untreated or Corona Treated. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

### KEY FEATURES:

- Excellent machinability & handling properties
- Excellent metal bond strength when metallized
- Corona treatment improves bonding
- Post Consumer Recycle content for a low carbon footprint (all % PCR)
- Modified surface provides excellent adhesion with various types of inks and adhesives.

## FILM STRUCTURE



### APPLICATION:

- Printing, Lamination, & Metallization
- Hot fill, Pasteurization, Sterilization, & Retort applications

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES			
THICKNESS		Internal	Micron	12	15	19	23
			(Gauge)	48	60	76	92
YIELD		Internal	m <sup>2</sup> / kg	59.52	47.62	37.59	31.05
			in <sup>2</sup> /lb	41934	33550	26483	21876
SURFACE TENSION (min) # (UPF Chemical Coated surface) (Corona Treated surface)		ASTM D-2578	dyne/cm	48			
				52			
COF (max) (UPF Chemical Coated to Untreated) (UPF Chemical Coated to Corona Treated)		ASTM D-1894	-	0.45	0.45	0.45	0.45
				0.45	0.45	0.45	0.45
HAZE (max)		ASTM D-1003	%	4.0	4.0	4.0	4.5
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm <sup>2</sup>	1900	1900	1900	1900
	TD			2000	2000	2000	2000
	MD		(Psi)	27000	27000	27000	27000
	TD			28500	28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	105	105	110	115
	TD			85	85	85	90
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	3.0			
	TD			1.0			
MVTR (38°C & 90% RH) (typical)		ASTM F-1249	gm/m <sup>2</sup> /day	45	40	35	30
			(gm/100 in <sup>2</sup> /day)	2.9	2.6	2.3	2.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m <sup>2</sup> /day	130	110	90	80
			(cc/100 in <sup>2</sup> /day)	8.5	7.1	5.8	5.2

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

### 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 270 days from the date of shipment.

### FOOD CONTACT

FLEXPET™ complies with EU and FDA regulations on plastic materials used for food grade applications. Specific documents and SDS are available on request.

### DISCLAIMER

It is the responsibility of our customer to determine that their use of our products is safe, lawful, and technically suitable in their intended applications. The technical data sheets are provided for discussion purposes only. The customer may not rely on the data provided for any manufacturing purpose. The values provided in the technical data sheet represent typical values based on the best of our knowledge as of the date when the data was compiled. The data 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 provides no warranty and accepts no liability for any loss or fitness of the product for any specific purpose based on the information contained in the technical data sheets. Flex reserves the right to change the technical data sheet at any time without prior notice.

Ref. No: QAD UFLI S/20 - F106/1

\*\* TDS issued on 01-04-2020. All previous version of this grade are invalid.

**FlexFilms**

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