

R-IST

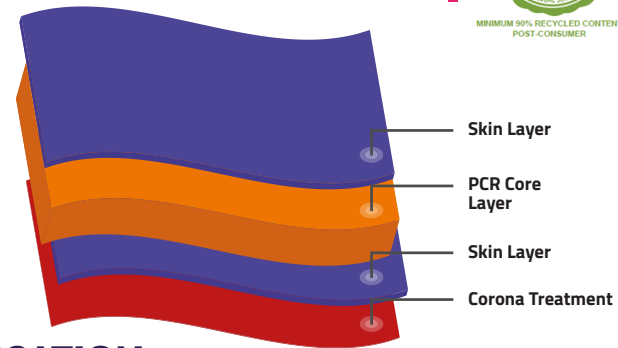
PCR BASED ISOTROPIC FILM

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

KEY FEATURES:

- Excellent clarity
- Corona treatment improves bonding
- Improved tensile & elongation properties
- Balanced mechanical properties in all directions
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- This film grade is ideal for lidding applications of dairy products
- Paper and Foil laminations

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES		
THICKNESS		Internal	Micron	12	23	36
			(Gauge)	48	92	144
YIELD		Internal	m ² / kg	59.52	31.05	19.84
			in ² /lb	41934	21876	13978
SURFACE TENSION (min) # (Corona Treated)		ASTM D-2578	dyne/cm	52		
COF (max) (Untreated to Corona Treated)		ASTM D-1894	-	0.50	0.50	0.45
HAZE (max)		ASTM D-1003	%	4.0	4.5	5.0
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	1800	1800	1700
	TD			1900	1900	1900
	MD		(Psi)	25500	25500	24200
	TD			27000	27000	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	110	120	130
	TD			95	100	100
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 ² /day	45	30	20
			(gm/100 in ² /day)	2.9	2.0	1.3
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	130	80	70
			(cc/100 in ² /day)	8.5	5.2	4.5

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.